

UNIVERSITY OF ARKANSAS BULLETIN

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1922	1923	1924
JULY	JANUARY	JANUARY
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
AUGUST	FEBRUARY	FEBRUARY
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SEPTEMBER	MARCH	MARCH
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
OCTOBER	APRIL	APRIL
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
NOVEMBER	MAY	MAY
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
DECEMBER	JUNE	JUNE
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

UNIVERSITY CALENDAR

1923

Entrance examinations, etc.....Monday-Tuesday, Sept. 17-18
Registration for fall term.....Wednesday-Saturday, Sept. 19-22
Fall term begins, 8:00 a. m.....Monday, Sept. 24
Thanksgiving holidayThursday, Nov. 29
Registration for winter term.....Monday-Friday, Dec. 10-14
Fall term ends, 5:00 p. m.....Wednesday, Dec. 19

1924

Winter term begins, 8:00 a. m.....Thursday, Jan. 3
Registration for spring term.....Monday-Friday, March 10-14
Winter term ends, 5:00 p. m.....Thursday, March 20
Spring term begins, 8:00 a. m.....Tuesday, March 25
Spring term ends, 5:00 p. m.....Saturday, June 7
Baccalaureate sermonSunday, June 8
Commencement dayTuesday, June 10
Registration for summer term.Wednesday-Saturday, June 11-14
Summer term begins, 8:00 a. m.....Monday, June 16
Summer term ends, 5:00 p. m.....Saturday, July 26

BOARD OF TRUSTEES

The Governor of Arkansas.....Ex-Officio

THOMAS C. McRAE, Little Rock.

The State Superintendent of Public Instruction.....Ex-Officio

JOHN L. BOND, Little Rock.

Expiration of Term

A. B. BANKS, Fordyce.....1923

FRANK PACE, Little Rock.....1923

JAMES D. HEAD, Texarkana.....1925

JOE K. MAHONY, El Dorado.....1925

HARRY L. PONDER, Walnut Ridge.....1925

HUGH A. DINSMORE, Fayetteville.....1927

JAMES K. BROWNING, Piggott.....1927

OFFICERS

Chairman.....GOVERNOR THOMAS C. McRAE

Secretary and Auditor.....WILLIAM H. CRAVENS, Fayetteville

COMMITTEES

Note.—The name of the chairman stands first.

Agricultural Extension—Messrs. Browning, Pace, and Banks.

Board of Control of the Agricultural Experiment Station—

The Committee on the College of Agriculture, the President of the University, and the Director of the Experiment Station.

Branch Normal School—Messrs. Bond, Banks, and Mahony.

Buildings and Grounds—Messrs. Dinsmore, Ponder, and Browning.

College of Agriculture—Messrs. Browning, Ponder, and Pace.

Executive—Governor McRae, Messrs. Mahony, Head, and Dinsmore.

Finance—Messrs. Banks, Head, and Dinsmore.

Medical College—Messrs. Pace, Bond, and Head.

Teachers—Messrs. Bond, Mahony, and Head.

OFFICERS OF ADMINISTRATION

Note.—The first date after a title indicates the year of appointment to present rank; the second, the year of first appointment to any position in the University. Where they coincide, only one date is given.

JOHN CLINTON FUTRALL, B. A., M. A. (University of Virginia), LL. D. (Tulane University). *President*, 1913, 1894.

WILLIAM NATHAN GLADSON, B. M. E., E. E. (Iowa State College), Ph. D. (McLemorsville College). *Vice-President, and Dean of the College of Engineering*, 1914, 1894.

GEORGE WESLEY DROKE, B. A., M. A. (University of Arkansas), LL. D. (Hendrix College). *Dean of the College of Arts and Sciences*, 1915, 1880.

JAMES RALPH JEWELL, B. A., M. A. (Coe College), Ph. D. (Clark University). *Dean of the College of Education*, 1913.

BRADFORD KNAPP, B. S. (Vanderbilt University), LL. B. (University of Michigan), D. Agr. (Maryland Agricultural College). *Dean of the College of Agriculture and Director of the Agricultural Experiment Station*, 1920.

MARTIN NELSON, B. S. A., M. S. (University of Wisconsin). *Vice-Dean of the College of Agriculture and Vice-Director of the Agricultural Experiment Station*, 1920, 1908.

MARY ANN DAVIS, *Dean of Women*, 1911.

ARTHUR MCCrackEN HARDING, B. A. (University of Arkansas), M. A., Ph. D. (University of Chicago). *Director, General Extension Division*, 1919, 1905.

MILTON T. PAYNE, *Director, Agricultural Extension Division*, 1920.

PEARL MARION FEARS, *Registrar*, 1922, 1918.

JOHN CLARK JORDAN, B. A. (Knox College), M. A., Ph. D. (Columbia University). *Examiner*, 1919, 1918.

WILLIAM HAMPTON CRAVENS, *Auditor, and Secretary of the Board of Trustees*, 1911.

THORNGY CEDRIC CARLSON, B. A. (University of Minnesota). *Executive Secretary to the President*, 1921, 1915.

JULIA RAMSEY VAULX, B. A. (University of Arkansas), M. A. (Cornell University). *Librarian*, 1914.

BOLLING JAMES DUNN, B. A., M. A. (Bethel College), LL. D. (Ouachita College). *Assistant Librarian*, 1917, 1894.

JIM P. MATTHEWS, B. A. (University of Arkansas). *Reference Librarian*, 1917.

BEATRICE SIMS, B. A. (University of Missouri). *Catalog Librarian*, 1917.

MARGARET GALLOWAY, *Librarian, College of Agriculture and Experiment Station*, 1916.

- HELEN HUDGINS, B. A. (University of Arkansas). *Library Assistant*, 1922.
- GUY BRADIN IRBY, B. M. E. (University of Arkansas). *Co-ordinator, Veterans' Bureau*, 1922, 1920.
- DOROTHY NATION, R. N. *Superintendent of the Infirmary*, 1920.
- HELEN CLAIRE BATTRICK, B. A. (Ohio University). *Y. W. C. A Secretary*, 1922.
- WILLIAM SEDGEWELL GREGSON, *Y. M. C. A. Secretary*, 1919.
- MRS. FANNIE S. PARK, *Matron, Carnall Hall*, 1907.
- MRS. J. E. CAMPBELL, *Assistant Matron, Carnall Hall*, 1907.
- MRS. CHARLES WINKELMAN, *Matron, Men's Dormitories*, 1919.

FACULTY

Note.—The first date after a title indicates the year of appointment to present rank; the second, the year of first appointment to any position in the University. Where they coincide, only one date is given.

†Member of Experiment Station Staff.

*Leave of absence.

**Deceased.

PROFESSORS, ASSOCIATE AND ASSISTANT PROFESSORS

- FREDERICK GOTTLIEB BAENDER, B. M. E. (University of Iowa), M. M. E. (Cornell University). *Professor of Heat Power Engineering*, 1916.
- †WILLIAM J. BAERG, B. A. (University of Kansas), Ph. D. (Cornell University). *Professor of Entomology*, 1920, 1918.
- †WILLIAM LESLIE BLEECKER, D. V. M. (Ohio State University). *Professor of Bacteriology and Pathology*, 1919, 1918.
- SAMUEL JACOB BRANDENBURG, B. A. (Miami University), Ph. M. (University of Chicago), Ph. D. (University of Wisconsin). *Professor of Economics and Sociology*, 1922.
- JOHN THEODORE BUCHHOLZ, B. S. (Iowa Wesleyan College), B. A. (University of Iowa), M. S., Ph. D. (University of Chicago). *Professor of Botany*, 1919.
- GEORGE NEWTON CADE, B. S., M. A. (University of Chicago). *Professor of Educational Training*, 1921.
- GILBERT HAVEN CADY, B. A., M. A. (Northwestern University), Ph. D. (University of Chicago). *Professor of Geology*, 1920.
- DEANE G. CARTER, B. S. in A. E. (Iowa State College). *Professor of Agricultural Engineering*, 1922.
- LO REE CAVE, B. S. (University of Wisconsin). *Assistant Professor of Home Economics*, 1922.

- †JOHN RALPH COOPER, B. S. (Kansas State Agricultural College), M. S. (University of Nebraska). *Professor of Horticulture*, 1918.
- JAMES ELMER DAVIS, B. A., M. A. (University of Wisconsin). *Assistant Professor of Mathematics*, 1922.
- SAMUEL CLAUDIUS DELLINGER, B. A. (Trinity College), M. A. (Columbia University). *Acting Professor of Zoology*, 1922, 1921.
- MACEY LILLARD DILL, Captain, U. S. Army. *Associate Professor of Military Art*, 1921.
- GEORGE WESLEY DROKE, B. A., M. A. (University of Arkansas), LL. D. (Hendrix College). *Professor of Mathematics*, 1897, 1880.
- BOLLING JAMES DUNN, B. A., M. A. (Bethel College), LL. D. (Ouachita College). *Emeritus Associate Professor of Mathematics*, 1917, 1894.
- †HENRY EDMUND DVORACHEK, B. S. A. (University of Minnesota). *Professor of Animal Husbandry*, 1915.
- **†JOHN ASBURY ELLIOTT, B. A. (Fairmount College), M. A. (University of Kansas), Ph. D. (University of Illinois). *Professor of Plant Pathology*, 1917.
- MARTIN RUSSELL ENSIGN, B. S. (Agricultural College of Utah), M. S. (Cornell University). *Associate Professor of Agricultural Education*, 1921, 1918.
- HARRISON CRANDALL GIVENS, B. M. E. (Cornell University), B. S. E. (University of Chicago). *Professor of Industrial Education*, 1918.
- WILLIAM NATHAN GLADSON, B. M. E., E. E. (Iowa State College), Ph. D. (McLemorsville College). *Professor of Electrical Engineering*, 1895, 1894.
- THEODORE GREGORY GRONERT, B. A., M. A., Ph. D. (University of Wisconsin). *Associate Professor of History*, 1922.
- HARRISON HALE, B. A. (Emory College), M. S. (University of Chicago), Ph. D. (University of Pennsylvania). *Professor of Chemistry*, 1918.
- KENNETH MALCOLMB HALPINE, Captain U. S. Army. *Professor of Military Art*, 1919.
- JOHN LEONARD HANCOCK, B. A. (University of Chicago), M. A. (Indiana University), Ph. D. (University of Chicago). *Acting Professor of Ancient Languages*, 1922, 1915.
- ARTHUR MCCrackEN HARDING, B. A. (University of Arkansas), M. A., Ph. D. (University of Chicago). *Professor of Mathematics and Astronomy*, 1916, 1905.
- GEORGE EVERETT HASTINGS, B. A. (Princeton University), M. A. (Princeton University and Harvard University), Ph. D. (Harvard University). *Associate Professor of English*, 1921, 1919.

- CHARLES FRANKLIN HILL, B. A., M. A., Ph. D. (University of Illinois). *Assistant Professor of Physics*, 1921.
- JOBELLE HOLCOMBE, B. A. (University of Arkansas), M. A. (Cornell University). *Assistant Professor of English*, 1918, 1907.
- HENRY GUSTAVE HOTZ, Ph. B., M. A. (University of Wisconsin), Ph. D. (Columbia University). *Professor of Secondary Education*, 1919.
- ALLAN SPARROW HUMPHREYS, B. S., (Drury College), M. S. (University of Pennsylvania). *Assistant Professor of Chemistry*, 1921, 1918.
- DWIGHT ISLEY, B. A. (Fairmount College), M. A. (University of Kansas). *Associate Professor of Entomology*, 1921.
- ALBERT WOODWARD JAMISON, B. S., M. S. (Princeton University). *Associate Professor of Economics and Sociology*, 1922.
- JAMES RALPH JEWELL, B. A., M. A. (Coe College), Ph. D. (Clark University). *Professor of Education*, 1913.
- VIRGIL LAURENS JONES, B. A. (University of North Carolina), Ph. D. (Harvard University). *Professor of English*, 1915, 1911.
- ARTHUR MELLVILLE JORDAN, B. A. (Randolph-Macon College), M. A. (Trinity College, North Carolina), Ph. D. (Columbia University). *Professor of Psychology*, 1919, 1914.
- JOHN CLARK JORDAN, B. A. (Knox College), M. A., Ph. D. (Columbia University). *Professor of English and Public Speaking*, 1918.
- JAMES KESSLER, B. A. (Indiana University), M. A. (University of Illinois). *Associate Professor of Romance Languages*, 1921.
- BRADFORD KNAPP, B. S. (Vanderbilt University), LL. B. (University of Michigan), D. Agr. (Maryland Agricultural College). *Professor of Agricultural Economics*, 1920.
- ALFRED EDWIN LUSSKY, Diploma (Concordia College), Diploma (Concordia Theological Seminary), M. A. (University of Illinois), Ph. D. (University of Michigan). *Professor of German*, 1921, 1915.
- ANTONIO MARINONI, B. A. (Desenzano, Italy), M. A. (Yale University). *Professor of Romance Languages*, 1906, 1905.
- DAVID HOGAN MARKHAM, B. A. (Oklahoma University), M. A. (Dartmouth College). *Assistant Professor of Education*, 1921.
- †RALPH HEDGES MASON, B. S. A. (University of Missouri). *Assistant Professor of Animal Husbandry*, 1918.
- ERNEST BERTRAM MATTHEW, B. A. (Kansas State Normal School), M. S. (University of Wisconsin). *Professor of Agricultural Education*, 1919, 1918.

- CHALMER KIRK McCLELLAND, B. S. A. (Ohio State University), M. S. A. (Cornell University). *Assistant Professor of Agronomy*, 1921.
- ALBERT DUEY McNAIR. *Professor of Agricultural Economics*, 1920.
- †MARTIN NELSON, B. S. A., M. S. (University of Wisconsin). *Professor of Agronomy*, 1918, 1908.
- †LYNN WESLEY OSBORN, B. S. A. (Iowa State College). *Assistant Professor of Agronomy*, 1916, 1913.
- STELLA PALMER, B. S. (University of Alabama), M. A. (Columbia University). *Professor of Home Economics and of Home Economics Education*, 1918.
- LOUIS ALPHONSE PASSARELLI, B. A. (Columbia University), M. A. (University of Toronto). *Assistant Professor of Romance Languages*, 1921.
- **FRANK WELBORN PICKEL, B. A. (Furman University), M. S. (University of South Carolina), M. S. (University of Chicago). *Professor of Zoology*, 1919, 1899.
- †CHARLES WORKMAN RAPP, B. S., M. S. (Oklahoma A and M. College). *Assistant Professor of Horticulture*, 1920.
- †JOHN WILLIAM READ, B. S. A., M. S. (University of Missouri). *Professor of Agricultural Chemistry*, 1918.
- HARRY E. REED, B. S. A. (University of Missouri). *Assistant Professor of Animal Husbandry*, 1921.
- CHARLES MYRON REINOEHL, B. A., M. A. (University of Indiana), Ph. D. (University of Chicago). *Professor of School Administration*, 1921.
- GILES EMMETT RIPLEY, B. A., M. S. (Purdue University). *Professor of Physics*, 1908.
- †HARRY ROBERT ROSEN, B. S. (Pennsylvania State College), M. S. (University of Wisconsin), Ph. D. (Washington University). *Associate Professor of Plant Pathology*, 1918.
- †WARD HARRISON SACHS, B. S. (Illinois Wesleyan College), M. S. (University of Missouri). *Associate Professor of Agronomy*, 1919.
- HERMAN AUSTIN SANDHOUSE, B. S. (Colorado Agricultural College), M. S. (Iowa State College). *Assistant Professor of Animal Husbandry*, 1922, 1915.
- SAMUEL JAMES SCHILLING, B. S. (University of Wisconsin), D. V. M. (Ohio State University). *Associate Professor of Veterinary Science*, 1922.
- CLARA ROWENA SCHMIDT, B. S. E. (University of Missouri). *Assistant Professor of Home Economics*, 1921, 1920.
- FRANCIS ALBERT SCHMIDT, LL. B. (University of Nebraska). *Professor of Physical Education for Men*, 1922.

- IRENE SHALEY, B. S., M. A. (Columbia University). *Assistant Professor of Physical Education for Women*, 1922.
- MURRAY SHEEHAN, B. A. (Miami University), M. A. (Harvard University). *Associate Professor of Journalism*, 1920.
- WILLIAM ALEXANDER SMITH, Major U. S. Army. *Professor of Military Science and Tactics*, 1923.
- WARREN RUSSELL SPENCER, B. A. (University of Indiana), B. S. C. E. (Rose Polytechnic Institute). *Associate Professor of Civil Engineering*, 1921, 1919.
- WILLIAM BOYD STELZNER, B. E. E., E. E. (University of Arkansas), M. S. (Ohio State University). *Professor of Electrical Engineering*, 1919, 1909.
- GEORGE PATRICK STOCKER, B. S. in C. E. (University of Wisconsin). *Professor of Civil Engineering*, 1919.
- †SAMUEL RODMAN STOUT, B. S. A. (University of Arkansas). *Assistant Professor of Animal Husbandry*, 1919, 1916.
- *HENRY HARRISON STRAUSS, B. A. (Wooster College), M. A. (Tulane University). *Professor of Ancient Languages*, 1914, 1913.
- †BARNETT SURE, B. S., M. S., Ph. D. (University of Wisconsin). *Associate Professor of Agricultural Chemistry*, 1921, 1920.
- DAVID YANCEY THOMAS, B. A. (Emory College), M. A. (Vanderbilt University), Ph. D. (Columbia University). *Professor of History and Political Science*, 1912, 1907.
- ELMSLIE TIMBS THOMAS, B. S. (Oberlin College), B. S. in Ed. (Kent State Normal College), M. A. (Oberlin College). *Assistant Professor of Geology*, 1921.
- HENRY DOUGHTY TOVEY, B. Mus., Mus. D. (Knox College). *Professor of Music*, 1908.
- †JACOB OSBORN WARE, B. S. A., M. S. (North Carolina State College). *Assistant Professor of Agronomy*, 1920.
- EDGAR WERTHEIM, B. S. (Northwestern University), B. P. E. (Y. M. C. A. College, Chicago), M. S. (University of Kansas), Ph. D. (University of Chicago). *Associate Professor of Chemistry*, 1921.
- BIRTON NEILL WILSON, B. S. M. E. (Georgia School of Technology), M. E. (University of Michigan), M. M. E. (Cornell University). *Professor of Experimental Engineering and Drawing*, 1917, 1896.

INSTRUCTORS AND ASSISTANTS

- BERNARD WILLIAM ADAMS, B. S. (Missouri School of Mines). *Instructor in Vocational Subjects*, 1922.
- MARGARET ELLEN ASKEW. *Assistant in Physical Education*, 1921.
- †RUSSELL HAYDEN AUSTIN, B. S. A. (University of Arkansas). *Instructor in Agronomy*, 1918.

- LOY BARTON, B. E. E. (University of Arkansas). *Instructor in Vocational Subjects*, 1921.
- *MARY CUMMINGS BAILEMAN, B. A. (Millersburg College). *Instructor in Voice*, 1905.
- LE ROY HENRY BERARD, Ph. B., M. A. (University of Chicago). *Instructor in English*, 1920.
- LUCIA BLAIR, B. A. (University of Arkansas). *Instructor in Education*, 1920.
- MARGARET BRANDENBURG, B. A. (Western College for Women), M. A. (University of Wisconsin). *Assistant in English*, 1922.
- MAUDE ETHEL BUNKER, Ph. B. (University of Wisconsin). *Instructor in Education*, 1920.
- WILLIE VANDVENTER CROCKETT. *Instructor in Expression*, 1905.
- MARY ANN DAVIS. *Instructor in English*, 1915.
- JAMES DINWIDDIE. *Instructor in Mechanic Arts*, 1916.
- ELIZABETH JACKSON GALBRAITH, B. A. (West Tennessee Christian College). *Instructor in Art*, 1906.
- MILDRED GILLESPIE. *Assistant in Organ*, 1922.
- JACK MURRAY GREATHOUSE, Sergeant, U. S. Army. *Assistant in Military Art*, 1919.
- IVAN HAMPTON GRILL, B. A. (Henry Kendall College). *Instructor in Physical Education for Men*, 1922.
- MARY FURNLEY GWATHMEY, B. A. (University of Richmond), Diploma (New York School of Fine and Applied Art). *Instructor in Art*, 1922.
- FRANK RUSSELL HAMBLIN, B. A., M. A. (Bucknell College), Ph. D. (University of Chicago). *Instructor in Ancient Languages*, 1922.
- DAVID CLINTON HANSARD. *Assistant in Violin*, 1916.
- DAISY YOUNG HOLCOMB, B. A. (University of Arkansas), M. A. (University of Missouri). *Instructor in Zoology*, 1922.
- JEWELL CONSTANCE HUGHES, B. A. (University of Arkansas), M. A. (University of Missouri). *Instructor in Mathematics*, 1918.
- JAMES ARTHUR JONES. *Instructor in Mechanic Art*, 1919.
- RALPH EDWARD KING, B. E. E. (State University of Iowa). *Instructor in Vocational Subjects*, 1921.
- HOWARD WALDO MCKINLEY, B. S. (Colorado Agricultural College). *Instructor in Vocational Subjects*, 1921.
- OWEN MITCHELL. *Assistant in Music*, 1913.
- JAMES CORRIE MOLLISON, B. S. (University of Michigan). *Instructor in Heat Power Engineering*, 1922.
- THOMAS BARILETT MULLIN, B. S. (Queens University, Ontario).

- M. S. (University of Wisconsin). *Instructor in Civil Engineering*, 1920.
- AGNES NELSON, Ph. B. (University of Chicago). *Instructor in Home Economics*, 1921.
- ANNA GRACE PARMELEE. *Instructor in Voice*, 1922.
- HARLOW HEATH PEASE, B. A. (University of Wisconsin). *Instructor in Economics and Sociology*, 1922.
- CARRIE PLUNKETT, B. S. (Iowa State College). *Instructor in Home Economics*, 1922.
- LYMAN EDWARDS PORTER, B. A., M. A., Ph. D. (Yale University). *Instructor in Chemistry*, 1921.
- DOROTHY MAY REQUA, Diploma (New York School of Fine and Applied Art). *Instructor in Art*, 1922.
- BERNARD SMITH, B. S. in E. E. (Georgia School of Technology), M. E. (Cornell University). *Instructor in Electrical Engineering*, 1922.
- LEVI CLARK STARBIRD, B. E. E. (University of Arkansas). *Instructor in Vocational Subjects*, 1921.
- ALBERTA STONE. *Assistant in Piano*, 1922.
- IRVING CHELLIS STORY, B. S. (New Hampshire College), M. A. (Cornell University). *Instructor in English*, 1922.
- WARD HASTINGS TAYLOR, B. A., M. A. (University of Illinois). *Instructor in Mathematics*, 1920.
- *WILLIAM LEWDY TEAGUE, B. E. E. (University of Arkansas). *Instructor in Electrical Engineering*, 1919.
- ANDREW JACKSON THOMPSON. *Instructor in Mechanic Arts*, 1921.
- WILLARD CORWIN WILBANKS, B. S. A. (Clemson Agricultural College). *Instructor in Dairying*, 1921.
- ELIZABETH PURNELL WILSON. *Instructor in Education*, 1919.

STANDING COMMITTEES OF THE UNIVERSITY SENATE, 1922-23

Note.—The name of the chairman stands first.

Accredited Schools—Professors Hotz, Dvorachek, J. C. Jordan, Palmer, Spencer.

Advisers—Deans Knapp, Droke, Gladson, Jewell.

Athletics—Professors Wilson, Marinoni, F. A. Schmidt, Stout, President Futrall.

Catalog—Professors Sheehan, Hotz, Sachs, Stocker, the Registrar.

Commencement—Professors Ripley, Kessler, Holcombe, Tovey, Mrs. Crockett.

Discipline and Attendance—Professors Gladson, Dvorachek, A. M. Jordan, Stocker, D. Y. Thomas, Miss Davis.

Graduate Study—Professors Jewell, Buchholz, Lussky, McNair, Stelzner.

Honorary and Higher Degrees—Professors Droke, Dellinger, Nelson, Read, Reinoehl.

Intercollegiate Debating—Professors J. C. Jordan, Brandenburg, Jamison, Jones, D. Y. Thomas.

Library—Professors D. Y. Thomas, Baerg, Jewell, Stelzner, Miss Vault.

Research—Professors Hale, Brandenburg, Buchholz, Isely, A. M. Jordan, Nelson, Stelzner, D. Y. Thomas.

Schedule—Professors Wilson, Bleecker, Hancock, A. M. Jordan, the Registrar.

Statistics—Professors Baender, Bleecker, Cady, Dellinger, Miss Galbraith.

Student Affairs—Professors Gladson, Hale, Holcombe, Jones, Miss Davis.

Student Organizations—Professors Stelzner, Cooper, Ensign, Hastings, C. R. Schmidt, the Registrar.

Student Publications—Professors Ripley, Halpine, Hastings, Sheehan, Stocker, Mr. Carlson.

GENERAL INFORMATION

DIVISIONS

The University of Arkansas is composed of the following divisions: the College of Arts and Sciences, the College of Education, the College of Engineering, the College of Agriculture, the Agricultural Experiment Station, and the General Extension Division, at Fayetteville; the School of Medicine and the Agricultural Extension Division at Little Rock; and the Agricultural, Mechanical, and Normal School, at Pine Bluff.

LOCATION

Fayetteville* is located in Washington County, in the northwestern part of the state, in the heart of the Ozark Mountains, at an elevation of about 1,500 feet. The surroundings are of great natural beauty, and the excellent climate of the region in all seasons is known throughout the Southwest.

Fayetteville may be reached from both the north and the south by the Texas branch of the St. Louis & San Francisco ("Frisco") Railroad. The Muskogee division communicates with the west.

The moral and religious conditions of the community are most favorable, as is shown by the choice of Fayetteville as site

*Note—The departments of the University which are located at Little Rock and Pine Bluff are dealt with in later pages.

for the Western Methodist Assembly, on Mount Sequoyah, on the eastern border of the town. With all of Missouri, Arkansas, Oklahoma, Texas, and Louisiana to choose from, Fayetteville was the spot selected.

There are twelve churches in the town, representing eleven denominations. The pastors of these churches actively interest themselves in the moral and spiritual welfare of the students.

HISTORY

The University of Arkansas owes its origin to a public land grant Act of the Federal Congress, which was accepted by the General Assembly of the state March 27, 1871, in an Act which provided for the location, organization, and maintenance of the institution. Fayetteville was selected as the seat, and the University was opened January 22, 1872. It has been in continuous operation since that time.

The growth of the University has been steady from its beginning, and the institution is now developing rapidly in attendance, in standards of scholarship, and in breadth of influence. Every section of the state is now represented by students on the campus, and the University is also attracting a growing number of young people from other states. Young women have been admitted to its courses from the first day of its existence.

The institution, as originally organized, was not divided according to the present designations. Thus, although courses in engineering were offered almost from the opening of the University, and degrees were conferred, it was not until 1893 that the College of Engineering was organized as such. Similarly, the College of Agriculture was not established under its present name until 1905, nor the College of Education until 1916, despite the fact that instruction in these fields had been given from the very first years of the institution. The Experiment Station was established in 1887, under an Act of Congress known as the Hatch Act. The present General Extension division and Agricultural Extension division were announced in the 1918 catalog of the University for the first time, but extension work has been offered since 1910.

INCOME AND RESOURCES

The income of the departments of the University at Fayetteville for the fiscal year 1921-22 was as follows:

Federal Government—

Morrill and Nelson Funds.....	\$ 36,363.00
Smith-Hughes Funds.....	3,656.00
State Appropriation.....	425,504.00
Student Fees.....	37,542.00
Interest on Endowment.....	6,903.00
General Education Board.....	3,500.00

Miscellaneous \$5,660.00

Total.....\$519,128.00

The Agricultural Experiment Station receives from the Federal Government (Hatch and Adams Funds) \$30,000.00 a year, and from sale of farm products about \$11,000.00 a year.

The equipment, buildings, and grounds at Fayetteville are estimated to be worth about \$1,000,000.00.

BUILDINGS AND EQUIPMENT

The campus at Fayetteville comprises a tract of wooded land of about one hundred twenty acres on a hill overlooking the town, and includes some twenty buildings. The University has its own heating plant and is supplied with electric light and water from the city plants.

DORMITORIES

Three dormitories are provided for the housing of men students. *Buchanan Hall*, a three-story brick structure, contains about forty student rooms. *Hill Hall*, likewise a three-story brick building, contains about twenty rooms for students, besides a recreation hall and a dining hall. *Gray Hall*, two stories in height and built of brick, accommodates about forty students. All rooms are provided with beds, mattresses, a table and two chairs; all other furnishings are supplied by the occupants.

Cornell Hall, the dormitory for young women, is an attractive three-story brick structure and contains rooms sufficient for about one hundred students, with parlors, a dining hall, and a recreation room. Furnishings are similar to those in the men's dormitories.

UNIVERSITY HALL

This structure, erected in 1872, is the old "main building." It is five stories in height and forms three sides of a quadrangle. Its seventy rooms serve as the offices of administration, and the class rooms, besides some laboratories, of the College of Arts and Sciences.

Library. The main library of the University is found in this building, as are also the libraries of the departments of Geology, History, Zoology, and Mathematics. Other departmental libraries are housed in the Chemistry, Engineering, and Physics buildings.

The University libraries altogether contain about 45,500 books, as follows:

General	278
Scientific and Technical	6,526
Literature and Language	6,565

History and Social Sciences.....	7,164
Philosophy and Religion.....	1,092
Government and State Documents.....	20,300
Bound Periodicals.....	3,361

The Biological and Geological Laboratories. The laboratories for Botany, Zoology, and Geology are supplied with equipment fully adequate for the courses offered.

The Museum contains various collections (mineral, petrographic, paleontological, botanical, zoological, relief maps) made with the view to facilitating instruction in biology and geology.

Art Studio. The studio is equipped for work in design, drawing, and painting.

The practice rooms of the Department of Music are located in University Hall.

Women's Gymnasium. The gymnasium for the women students is equipped with modern apparatus, and provided with lockers, dressing-rooms, and shower-baths.

Armory. The armory, with the usual military equipment, including band instruments, occupies a large room in the basement.

Book Store. The book store contains a complete line of text books and supplies.

CHEMISTRY BUILDING

This building contains laboratories for quantitative and qualitative analysis, for organic and physical chemistry, for a saying, besides balance-room, a library, a large lecture-room, and a general laboratory for beginning students.

AGRICULTURAL BUILDING

This building contains the main administration offices of the College of Agriculture, the offices of the Dean and Director and of the department of Agronomy and Soils. Here are located the cotton laboratory, where instruction in cotton grading is given and where the laboratory work in cotton is conducted, class rooms and the laboratories for field crops and for soils, and the laboratory of biochemical study of nutrition conducted by the department of Agricultural chemistry.

DAIRY BUILDING

The Dairy Building is a stone building containing the offices of the department of Animal Husbandry and Dairying, the class rooms of that department, a dairy laboratory, and the college creamery which manufactures about 5,000 pounds of butter each week and serves as a means of instruction in creamery work.

AGRICULTURAL LIBRARY BUILDING

This is a small brick building formerly used by the department of Entomology. With a few changes it has been worked

over to take care of the Agricultural Library. It consists of a stack room and a reading room, and contains about 3,000 bound volumes and 5,000 unbound bulletins and pamphlets. Files of twenty-five scientific periodicals are kept.

AGRICULTURAL LABORATORIES

The departments of Agricultural Chemistry, Bacteriology, and Veterinary Science are housed in a one-story brick building, formerly known as the Experiment Station Building. The laboratories are well equipped for instruction of students and for station work along these particular lines of investigation.

GRAY HALL

Owing to the pressure for space, in 1922 about two thirds of Gray Hall was remodeled for use as offices, class rooms, and laboratories. The departments of Agricultural Economics, Agricultural Engineering, Entomology, Horticulture, Plant Pathology, and Agricultural Education are located in this building.

LIVE STOCK

At the barns west of the campus and at the Experiment Station Farm the College of Agriculture and Experiment Station has a large amount of live stock for instructional and experimental purposes. This consists of about one hundred head of cattle, including Jerseys, Holsteins, Ayrshires, of the dairy breeds; Shorthorns, Herefords, and Angus, of the beef breeds. Many of these are prize winners and among them are some of the best cattle in the State of Arkansas. Three breeds of hogs are also kept for the work of the institution, consisting of Poland Chinas, Durocs, and Tamworths, and numbering from seventy-five to one hundred fifty head according to the season. Poultry to the number of eight hundred to one thousand birds are carried in the breeding and other experimental work of the College.

FARM LANDS AND ORCHARDS

The College of Agriculture and Experiment Station has approximately five hundred twenty-five acres of land in the new Experimental Farm and the lands adjacent to the University Campus. These are used in general farming and in the active work of the State Experiment Station. Agronomy has about one hundred twenty acres in experimental work in soils and crops. The department of Horticulture farms about sixty-five acres, consisting of a fine new apple orchard, a mature apple orchard covering forty acres in all, also a vineyard, and room for vegetable work. The department of Animal Husbandry has the barns, pastures, and crops for the live stock. These facilities are used in work of instruction as well as experimentation. In addition to these the students are often taken to nearby

farms, orchards, and centers of production. Branch experiments are conducted at various places in the state. During the past year Branch Stations were maintained at Scott, Burdette, and other places in the state, for the study of cotton and related crops of the cotton section.

PEABODY HALL

Peabody Hall is used by the College of Education. It is a modern, fireproof building, containing about thirty rooms for class work, various offices, a large assembly room, a manual training shop, home economics, laboratories, and rooms in which the college classes in Education and Psychology meet.

University High School. The University High School and the primary grades for practice teaching are also conducted in this building.

Home Economics Laboratories.—Practically all of one floor is occupied by the laboratories for cookery, sewing, millinery, and table service, and the reception room. The equipment in each laboratory is new and modern.

ENGINEERING HALL

Erected in 1904, this building contains the offices, recitation rooms, drawing rooms, and testing laboratories of the civil, electrical, and mechanical engineering departments.

The Civil Engineering Testing Laboratory. The road materials testing equipment is complete for making all the standard tests as recommended by the U. S. Office of Public Roads. The cement and concrete testing equipment is sufficient for making all the standard tests in cement and on small specimens of concrete. The structural materials testing department is equipped for making tension, compression, and impact tests on small specimens of practically all structural materials. The hydraulic laboratory equipment, although rather limited, is sufficient to give practical demonstration in connection with elementary hydraulics.

The Civil Engineering Instrumental Laboratory is provided with all the necessary instruments for work in land, railroad, and city surveying, practical astronomy, and office work. The equipment of field instruments has been so selected as to afford students the opportunity of becoming familiar with the instruments of the different manufacturers.

The Electrical Engineering Laboratories offer excellent facilities for experimental work. The main laboratory is supplied with a variety of types and sizes of direct current and alternating current generators, motors, control equipment and instruments; storage batteries, converters and rectifiers, synchronous converters, transformers, condensers, inductances, etc. Adequate switchboards and wiring are provided for convenience in testing. A well equipped instrument and repair shop is maintained in connection with the laboratory.

The *Standardizing Laboratory* is equipped with standards and precision instruments and is wired and arranged for facility in standardizing work.

The *Photometric Laboratory* has a standard photometer bar and accessories, several types of portable photometers, and lighting units and equipment.

The *Telephone Laboratory* has magneto and central energy switchboards complete, test lines, and numerous telephone and wireless instruments.

The *Experimental Engineering Laboratory* is equipped with steam and gasoline engines, condenser, boiler feed pumps, and other power plant equipment for conducting standard tests. In addition to the power plant equipment, the laboratory is provided with apparatus for fuel testing, oil testing, flue gas analysis, and for testing materials of construction.

MECHANICAL HALL

Mechanical Hall contains the machine shop, wood shop, and forge shop. The shops will accommodate about seventy-five students at one time. Adjoining on the east is a boiler room.

PHYSICS BUILDING

The *Physics Building*, built in 1917, is a two-story frame building containing ten rooms well arranged for lecture and laboratory work in physics. On the first floor are two laboratory rooms, a large lecture room, a store-room, and an office room. The second floor includes a large lecture room, a laboratory room, a photometric room, a work-shop room, and a library. Concrete piers are provided for all delicate work in the laboratories and for the delicate balances. The equipment of apparatus is fairly complete and of sufficient variety and duplication to permit the instruction of large sections in the laboratories.

UNIVERSITY CLUB

This building stands between the Agricultural Building and the Chemistry Building. It contains, besides the assembly rooms of the faculty organization, a modern cafeteria restaurant for faculty, students, and others, located on the ground floor.

Y. M. C. A. HUT

A hut of the standard "D" type contains the office of the Y. M. C. A. secretary and also an auditorium which is used for religious meetings on Thursday evenings, for motion picture entertainments, and for various social affairs.

INFIRMARY

The infirmary is in charge of a trained nurse. The building is furnished with open and private wards for men and women, and a well isolated ward for contagious cases.

ATHLETIC FIELD

Grounds for athletic sports contain the football gridiron, the baseball diamond, the quarter-mile track, and facilities for basket ball, volley ball, and other games. Tennis courts are located in various places on the campus.

ADMISSION

Students may be admitted to the University in two ways:

- a. By presenting fifteen units in acceptable subjects from accredited secondary schools;
- b. By passing an examination given by the University in fifteen units in acceptable subjects.

ADMISSION BY EXAMINATION

General Examinations. Entrance examinations are offered at the University during the opening week of school. Students living at a distance from the University may secure special examinations to be conducted by the school principal or the county superintendent under conditions that will be indicated when the application is made. Requests for examinations must be mailed so as to reach the University Examiner not later than September 1.

Intelligence Test. Persons twenty-three years of age, or over, who do not possess a satisfactory secondary school record may secure admission to the University and pursue courses leading to a degree by passing a general intelligence test designed to determine the applicant's mental powers and alertness. Students admitted to the University by an intelligence test may be granted a degree from this University, provided that each year they maintain an average scholastic record of at least two and a half grade points.

ADMISSION BY CERTIFICATE

Class "A" Schools.—All graduates of class A high schools and preparatory schools of this state are admitted to the freshman class of the University. This privilege will also be granted to all graduates of schools accredited by the Association of Colleges and Secondary Schools of the Southern States, or by the North Central Association of Colleges and Secondary Schools.

Class "B" Schools.—Graduates of these schools who present fifteen units of work approved by the University are admitted to the freshman class. Students coming from high schools or preparatory schools located in another state not accredited by the Association of Colleges and Secondary Schools of the Southern States, nor by the North Central Association of Colleges and Secondary Schools, but accredited by the state University of that state, may enter the University upon the same terms. For subjects accepted for admission see later pages.

All candidates are expected to meet the specific requirements of the college or curriculum they desire to enter. Any student unable to meet the entrance requirement of a particular college or curriculum, or any student whose entrance credit in acceptable subjects was reduced to satisfy University regulations, will be allowed to make up not more than one deficiency by examination, or by courses pursued in summer school, or by courses pursued in the regular session intended primarily for freshmen. If University courses are offered to remove such deficiencies, nine term hours of college work shall be equivalent to one entrance unit.

Any student who has completed fifteen or more units in acceptable courses in the high school, but who has attended high school less than four full years, shall be conditioned in one entrance unit. This condition may be removed by making a passing grade in twelve hours of work during the first term of the freshman year; otherwise the student must make up this condition in the manner described above.

Students who have been previously admitted to another college or university of equal standing will be allowed to enter without conditions upon presenting a certificate of honorable discharge, and an official statement of the work accepted for entrance by the institution last attended, provided it appears that such work is substantially equivalent to the work required for entrance to the University of Arkansas.

An official statement of the student's record, containing specific information as to the kind and extent of work done, should be mailed to the Registrar of the University as early in the summer as possible and in no case later than September 1. Blank forms for this purpose will be furnished upon request. Diplomas of graduation will not be accepted in lieu of certificates.

OUTLINE OF ENTRANCE REQUIREMENTS COLLEGE OF ARTS AND SCIENCES

The following units are prescribed for the course leading to the degree of *Bachelor of Arts*:

English, three units.

Algebra, one unit.

Geometry, one unit.

History, one unit.

Enough additional units to bring the total to fifteen.

The following units are prescribed for the course leading to the degree of *Bachelor of Science*:

English, three units.

Algebra, one unit.

Geometry, one unit.

History, one unit.

Natural science, one unit.

Enough additional units to bring the total to fifteen.

The following units are prescribed for the course leading to the degree of *Bachelor of Music*, and for the special courses in music:

English, three units.

History, one unit.

Enough additional units to bring the total to fifteen. A maximum of three units in music may be used as part of the elective work.

COLLEGE OF EDUCATION

The following units are prescribed for all courses leading to the degree of *Bachelor of Science in Education*:

English, three units.

Social Science, one unit.

Science and Mathematics group, two units.

Enough additional units to bring the total to fifteen.

A maximum of four units towards entrance will be allowed in vocational subjects. Students preparing to teach agriculture, home economics, and commercial subjects may, however, be permitted to offer seven and one-half units in vocational subjects.

Provisions Affecting Advanced Standing

Graduates of the Arkansas State Normal School, and of institutions of equal standing elsewhere who have completed at least two full years of normal school work after graduating from a fully approved four-year high school, will be admitted to junior standing.

COLLEGE OF ENGINEERING

The following units are prescribed for all four-year courses*:

English, three units.

Algebra, one and one-half units.

Geometry, one unit.

History, one unit.

Enough additional units to bring the total to fifteen.

COLLEGE OF AGRICULTURE

The following units are prescribed for entrance to the four-year courses in agriculture:

English, three units.

Algebra and Geometry, two units (at least $\frac{1}{2}$ unit in Geometry).

Enough additional units to bring the total to fifteen.

*For a statement of the entrance requirements to the engineering trade courses, see later page.

A maximum of $7\frac{1}{2}$ units toward entrance will be allowed for vocational and business subjects to students from the district agricultural schools and accredited Smith-Hughes high schools.

A maximum of 4 units toward entrance will be allowed for vocational and business subjects to students from other accredited high schools.

Home Economics

The following units are prescribed for the four-year course in home economics:

English, three units.

Algebra, one unit.

History, one unit.

Enough additional units to bring the total to fifteen.

Students from district agricultural schools, from accredited Smith-Hughes high schools, and other high schools offering courses in home economics approved by the State Supervisor, may offer $7\frac{1}{2}$ units in vocational and business subjects, $3\frac{1}{2}$ of which may be in business or vocational subjects other than home economics.

In accredited schools other than those mentioned above, four units may be offered in vocational (including home economics) and business subjects.

Advanced Standing Allowed Students From District Agricultural Schools

Students entering from the District Agricultural Schools may obtain advanced standing by taking examinations in courses in agriculture or home economics offered in the freshman and sophomore years in the College of Agriculture, in so far as the student's work in the District Agricultural School has not already been applied as entrance credits.

Accredited Smith-Hughes High Schools

Eligibility for classification as an accredited Smith-Hughes High School such school must be approved by the State Supervisor, and the agriculture or home economics taught must be approved by the faculty of the College of Agriculture of the University of Arkansas.

SUBJECTS ACCEPTED FOR ADMISSION

The following statements indicate in a general way the preparation which is expected in the various subjects accepted for admission. The numbers in parentheses following each subject indicate the minimum and maximum number of units which may be offered in that subject. The term unit is understood to represent a high school or preparatory course continued through a school year of thirty-six weeks with five recitations of forty-five

minutes each a week. In all laboratory work a double period of ninety minutes will be equivalent to a single recitation period of forty-five minutes.

ENGLISH (3-4)

In order to secure a definite plan of study and unity of method on the part of the preparatory schools, the entrance requirement in English is outlined below somewhat in detail, following the recommendations of the National Conference on Uniform Entrance Requirements in English.

The study of English in school has two main objects: (1) command of correct and clear English, written and spoken; (2) ability to read with accuracy, intelligence, and appreciation.

Grammar and Composition—The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered, and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

Literature—The second object is sought by means of two lists of books, headed respectively, *Reading and Study*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud, and be encouraged to commit to memory some of the more notable passages in both verse and prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

The College Entrance Examination Board has prepared two lists of books, a "Restricted" list and a "Comprehensive" list. The choice of books for reading and study in the Comprehensive list is rather wide. Copies of this list may be secured from the publishing house, or from the College Entrance Examination Board, 431 West 117th Street, New York City. It should be noted that, though the "Comprehensive" list contains a number of books by living writers, it does not include contemporary novels of no permanent value. Such novels will not be accepted as part of the entrance requirement. The "Restricted" list is printed below, with semicolons used to set off the units. With a view to a large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group 1.

List of Books, 1923-1925

A. Reading

From each group two selections are to be made, except that for any book in Group V a book from any other group may be substituted.

Group I. *Prose Fiction*.—Dickens, *A Tale of Two Cities*; George Eliot, *Silas Marner*; Scott, *Quentin Durward*; Stevenson, *Treasure Island* or *Kidnapped*; Hawthorne, *The House of Seven Gables*.

Group II. *Drama*.—Shakespeare, *Merchant of Venice*; Julius Caesar; King Henry V; As You Like It.

Group III. *Poetry*.—Scott, *The Lady of the Lake*; Coleridge, *The An-*

First Mariners; Arnold, Sohrab and Rustum; a collection of representative verse, narrative and lyric, Tennyson, Idylls of the King (any four); the Iliad or the Odyssey is a translation of recognized excellence, with the omission, if desired, of Books I-V, XV, and XVI of the *Odyssey*.

Group IV. *Itinera, Biography, etc.* - The Old Testament (the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Isaiah, together with the books of Ruth and Esther); Irving, *The Sketch Book* (about 175 pages); Addison and Steele, *The Sir Roger de Coverley Letters*; Moody, *Lord Chive*; Parkman, *The Oregon Trail*; Franklin, *Autobiography*.

Group A. *Contemporary Literature*. A modern novel; a collection of short stories (about 15 pages); a collection of contemporary verse (about 15 pages); a collection of three essays on matters of current interest (about 150 pages); two modern plays.

All selections from the group should be works of recognized excellence.

B. Study

One selection is to be made from each group.

Group I. *Drama*.—Shakespeare, *Macbeth*; *Hamlet*.

Group II. *Plays*. *Milken, I Dodge, I Deny* etc., and either *Comus* or *Isabel Browning*. Or *Two Trains*. *Three*. *Four*. *Five*. *They Brought the Bird*. *I Never*. *From Good to Bad*. *His*. *Light*. *From A Road*. *Home*. *I Lights*. *in the Sun*. *Incident*. *in the Forest*. *Comes*. *Hard Red*. *Phaedra*. *After My Last Dinner*. *Up at a Night*. *Thou in the City*. *The Italian in England*. *The Patriot*. *The Paid Piper*. *The Constitution*. *Instant Tyrannus*. *One Word More*.

Group III. *Poems*—Macaulay, *Life of Johnson*; Carlyle, *Essay on Burns*, with a brief selection from *Born's Poems*; Arnold, *Wordsworth*, with a brief selection from *Wordsworth's Poems*.

Group IV. (Four or Five) Speeches on *Consolidation with America*; a collection of orations, to include at least Washington's *Farwell Address*, Webster's *First Bunker Hill Oration*, and Lincoln's *Gettysburg Address*.

Note.—The reading list adopted by the Arkansas State Board of Education may be substituted for either of the preceding lists, subject to the approval of the University in each case.

MATHEMATICS

Elementary Algebra. (1). Positive and negative numbers; addition, subtraction, multiplication, division, factoring, highest common divisor and lowest common multiple by factoring, fractions, equations of the first degree, in one, two, or three unknowns, and the solution of problems involving such equations, in one or more unknowns; the binomial theorem; evolution, including cube roots; graphical representations and graphical methods in the solution of equations of all types; linear and quadratic equations; affected quadratic equations by the method of completing the square and by factoring; with problems involving such equations. Hawkes-Luby-Touton, *First Course in Algebra* or its equivalent, will be accepted as a satisfactory text.

Higher Algebra. (3½-10).—A review of elementary algebra with more emphasis on the theory and applications, rather than on the work, theory of quadratic equations, and the theory of variation, variation, progression, and logarithms. The book is intended for use in the first year of high school, and is equivalent to the first year of college. It is a satisfactory text. One unit will be allowed for this work, provided that the course is carried during the fourth year of the high school, or after the pupil has done a year of work in plane geometry. Otherwise, only one-half unit will be allowed.

From memory. (4) None of the standard texts on this subject will furnish the necessary preparation. The exercises requiring solutions and demonstrations should be emphasized.

5. *Geometry*. (12).—Any of the standard texts on this subject will

furnish the necessary preparation. The exercises requiring solutions and demonstrations should be emphasized.

Plane Trigonometry. (12).—This should include a thorough study of some standard high school text, such as Harding and Turner's *Plane Trigonometry*. The exercises requiring solutions and demonstrations should be emphasized.

HISTORY AND SOCIAL SCIENCES

History

Ancient History. (1-1).—The completion of a standard text-book, with emphasis on the history of Greece and Rome and some attention to geography, will satisfy the requirements for one unit.

Medieval and Modern History. (1-1).—The completion of a standard text covering the history of Europe in medieval and modern times, parallel reading, and a knowledge of the geography involved, will satisfy the requirements for one unit.

European History. (½-1).—In place of the one unit courses in ancient history and medieval and modern history outlined above, two units of credit will be given for courses in European development based on text-like Robinson and Breasted, and Robinson and Beard.

English History. (½-1).—An advanced high school text should be used. Constitutional points should receive attention, and easily accessible documents should receive careful study.

American History. (½-1).—An advanced high school text should be used and the subject should be taken preferably in the senior year. Current newspapers and magazines should be assigned as collateral reading.

Social Sciences

Community Civics and Vocations. (½-1).—The aim of the course should be to help the child to know his community—not merely a group of facts about it, but the meaning of his community life, what it does for him, and how it does it, what the community has a right to expect from him, and how he may fulfill his obligations. This course should include a thorough study of some standard text, such as Hughes' *Community Civics*. If it is desired, a part of the time may be spent studying such a text as Gowin and Wheatley's *Occupations*.

Elementary Economics. (½).—in the study of economics it is desirable to avoid two extremes, abstract theory on one hand, and controversial questions, such as the tariff, trusts, and trade unions, on the other hand. Emphasis should be placed on the historical and descriptive matter, especially relating to the economic development of England and the United States. Some good elementary textbook should be mastered and a reasonable amount of collateral reading required.

Elementary Sociology. (1).—Concrete facts and problems, particularly of the social groups with which pupils are most familiar, such as the neighborhood, the local community, the play gang of adolescents, and the family, should be stressed.

Civil Government. (1).—This should be a study of our government, national, state, and local, as it is organized and actually operated today. The instruction should aim to impart information essential to intelligent active citizenship, such as the division of the government into departments, their organization and functions, the methods of nominating, electing, and appointing men to office; of framing and amending constitutions, city charters, and statutes, of drawing good and just taxes and the duty of the citizen to serve on them, the distinction between common law, state law, and constitutional law; between equity, civil, and criminal cases.

Commercial Geography. (1).—This describes and seeks to explain the commerce of today. The work should cover the ways in which commerce depends on nature and on man, the development of means of transportation and communication, and a detailed study of the several commercial

regions of the world, with reference to resources, industries, transportation facilities, and commerce. It should be based on the text-book, supplemented by map work and assigned readings.

LANGUAGES

Latin

Latin Grammar. (1) —This should include a thorough grounding in some standard elementary Latin Grammar, such as Bennett, Hale-Buck, or Allen and Greenough, revised edition. Proficiency is particularly desired in the following subjects: the analysis of the verb forms, the rules of syntax, and the principal parts of the irregular verbs.

Caesar. (12-1) —First four books or selections from the seven books equivalent to them. The student is expected to be familiar with the life of Caesar and an account of his wars.

Cicero. (11-1) —Any four orations from the following list: *Against Catiline*, *Pro Archarius*, *Ligarius*, *Murcellus*, *Murcian Law* (to count as two orations), the fourteenth *Philippic*. The student should also be familiar with the life of Cicero.

Vergil. (12-1) —Six books of the *Æneid*. The student should be familiar with the life of Vergil and an account of his times and writings. A correct rhythmical reading of the text is to be encouraged.

Greek

Greek Grammar. (1) —This should include a thorough grounding in some standard elementary Greek Grammar, such as White's *First Greek Book*, with translation from Xenophon's *Anabasis*, Book I.

Xenophon's Anabasis. (12) —Four books, accompanied by work in grammar and composition.

German

German Grammar. (1) —The student should know the rudiments of grammar, be able to read prose at sight, and to translate simple English sentences into German.

Advanced German. (1-3) —The student should be able to read modern German prose and poetry at sight and to translate any English narrative into German. A considerable amount of reading from such authors as Büchli, Heyne, Freytag, Baumbach, Heine, Goethe, and Schiller will be expected.

French

French Grammar. (1) —The student should be familiar with elementary French grammar, with special attention to the irregular verbs. He should be able to read easy prose at sight and to translate simple English sentences into French.

Advanced French. (1-3) —The student should be able to read standard French prose and poetry at sight and to translate easy English narrative into French. A considerable amount of reading from such authors as Daudet, Ibsen, Sandeau, Dumas, Augier, Labiche and Martin, and Hugo will be expected.

Spanish

Spanish Grammar. (1) —The student should be familiar with elementary Spanish grammar and should be able to read easy prose and to translate simple English sentences into Spanish.

Advanced Spanish. (1-3) —The student should be able to read standard Spanish prose and poetry at sight and to translate easy English narrative into Spanish.

NATURAL SCIENCES

All of the courses in natural science should include at least two 80-minute periods of laboratory work each week.

General Science. (½-1).—The course should consist of an elementary study of the applications of science to the affairs of everyday life. Such topics as atmosphere and the weather, house-heating and ventilation, foods, water supply, hygiene, and disease preventions are types of the topics which should make up the course. It is not intended that the course should be organized as the special science, and it should not be organized with the idea of preparing students for work in the special sciences. The justification of the course must be in terms of its own intrinsic value as a training for life. This point of view is expressed in most of the late text-books on general science.

Physiology. (½-1).—This should include a thorough study of some standard high school text with note books, drawings, individual laboratory instructions, and demonstration work.

Physical Geography. (½-1).—A thorough study of any standard high school text supplemented by laboratory exercises, will satisfy the requirements.

Physics. (½-1).—This should include a study of at least four of the following topics: mechanics of solids, liquids, and gases, sound, heat, light, electricity, and magnetism, based on some standard high school text and supplemented by laboratory exercises.

Chemistry. (½-1).—The full year's work should include a study of both the metals and non-metals, with laboratory experiments to illustrate the common chemical laws and the more simple chemical reactions.

Biology. (½-1).—A thorough study of any standard high school text supplemented by laboratory exercises will satisfy this requirement.

Botany. (½-1).—The course should follow as closely as possible the nature and work of plants during the changing seasons of the year. The major portion of the work should be with living plants, naming the common plants of the neighborhood, both cultivated and native, and studying plant parts from seed to maturity.

Zoology. (½-1).—Animals should be studied as living units in their relation to one another and their environments. This study should include developmental stages as well as the adult stage. The aim of the teacher should be to foster a love for animate nature and to develop accuracy in observation and description.

PUBLIC SPEAKING

Debate. (½).—Credit will be allowed to members of teams in the Arkansas High School Debating League who have participated in an inter-scholastic debate.

VOCATIONAL SUBJECTS

Not more than four units will be accepted toward entrance.

Agriculture

Plant Production. (½-4).—This work should include the study of farm crops, seed selection, soils and soil fertility, diseases, and insects.

Animal Production. (½-4).—This includes the study of history of breeds, feeding, breeding, judging, live stock production and marketing, and diseases.

Dairying. (½-2).—Farm dairying, Babcock-testing, butter-making, and record keeping.

General Horticulture. (½-2).—Plant propagation, principles of fruit growing, vegetable gardening, diseases, and insects.

Farm Mechanics, Rural Engineering. (½-4).—This work should include farm shop work (both wood and forge), drawing, farm machinery,

farm motors, farm drainage, and farm buildings. Work should be especially applicable to farm practice.

Farm Management, Rural Economics. (1;1).—Farm accounting, project accounting, organization, and marketing.

Business Subjects

Commercial Arithmetic. (1;1).—This should include a thorough study of some standard high school text such as Mills and Store or Beeman and Smith, and should be studied during the third or fourth year, otherwise no credit will be allowed.

Business Law. (1;1).—Text book supplemented by study of a few typical cases and practice in drawing up ordinary legal papers, such as bills, notes, checks, etc.

Elementary Bookkeeping. (1;1).—A text book should be employed with exercises so arranged that no two pupils will do exactly the same work, and no credit should be allowed unless the work is done neatly, accurately, and at a satisfactory rate of speed. It is suggested that double periods be provided, and all work be done in class under the eye of the instructor. The set used should include the journal, cash book, sales book, ledger, check book, bank pass book, and trial balance book.

Advanced Bookkeeping and Business Practice. (1;1).—Thorough drill on standard business forms, such as bills, receipts, checks, and notes, also on the use and meaning of business symbols and abbreviations. The student should become acquainted with the bill and invoice book, and loose leaf and voucher systems of bookkeeping. Each student should carry on a business of his own, first as an individual, then as a partnership, and finally as a corporation. Credit on this course should mean that the student lacks only age and actual business experience to become a competent bookkeeper.

Typewriting. (1;1).—The student should have a complete mastery of the keyboard by the "touch method." The minimum speed at the end of a year should be at least forty words a minute. Thorough training should also be given in care of the machine, in modern methods of manipulation, and in filing papers. One year will be allowed for five periods of ninety minutes each a week for thirty-six weeks.

Shorthand. (1;1).—The student should have a thorough knowledge of the fundamental principles of the system of shorthand studied, the word-stroke and contraction, and the elements of phrasing. The minimum speed at the end of the first year should be sixty-five words per minute on continuous, literary, and figurative words per minute on general matter. Accuracy in reading shorthand is essential. To receive full credit at the end of the five periods each week must be double periods of ninety minutes each.

Fine Arts

Music. (1;2).—Credit will be granted in music to students from high schools whose music instructors are licensed, and whose courses are outlined by the State Music Teachers' Association. A year's work shall count as one-half year, that is, a minimum of two advance units shall be granted to students taking four years' work in music in the high school.

Art and Drawing. (1;2).—One year will be allowed for five periods of ninety minutes each a week for thirty-six weeks.

Home Economics

Food. (1;3).—Should include the study of food stuffs and the principles of cooking; the organization and service of meals; the proper food for children, adults, aged, and sick; cost of food; care of the food in the home. Laboratory and recitations.

Clothing. (1;3).—Types of materials best suited to articles or garments being made; skill in the different sewing processes; construction of garments and dresses; renovation of materials; cost of clothing; hygiene of dress; millinery.

Home Making. ($\frac{1}{2}$ - $1\frac{1}{2}$).—Care and sanitation of the home, house planning, furnishing, home management, home care of the sick, care of children.

Five periods—ninety minutes each—thirty-six weeks, count for one unit.

Manual Training

Shop Work. (1-4).—Credits will be allowed as follows: Two units in joinery, wood turning, and cabinet making; $\frac{1}{2}$ unit in pattern making; $\frac{1}{2}$ unit forging; $\frac{1}{2}$ unit foundry; $\frac{1}{2}$ to 2 units machine shop; $\frac{1}{2}$ to 2 units printing; $\frac{1}{2}$ unit for sheet metal work; $\frac{1}{2}$ unit for electric wiring; 1 to 2 units for auto shop work.

Mechanical Drawing. (1-4).— $\frac{1}{2}$ to 2 units will be allowed for mechanical drawing; $\frac{1}{2}$ to 2 units for machine drawing; $\frac{1}{2}$ to 2 units for architectural drawing; $\frac{1}{2}$ to 2 units for sheet metal drawing.

Five periods—ninety minutes each—thirty-six weeks, count for one unit.

Normal Training Subjects

Psychology. (1-1).—The chief emphasis should be upon instructive tendencies, habit formation, memory association, economy of learning, the affective life, and the thought process. Both general and educational psychology, forming the bases of the specific courses in educational theory and practice, should be stressed. The course should be based on some standard text such as Colvin and Bagley, or LaRue, correlated with supplementary readings.

Classroom Management. ($\frac{1}{2}$ -1).—A discussion of classroom organization, classroom routine, the daily program, etc., should be followed by an analysis of the principal types of teaching, technique of instruction, assignments, teaching how to study, and the art of expression. Standard text such as Strayer, or Sears, or Booley, together with abundant supplementary material, should be mastered.

Special Methods, Observation and Practice. ($\frac{1}{2}$ -1).—Practice teaching should be preceded by systematic observation of classroom work. During the term in which the student undertakes practice teaching, it should be the dominating feature of the student's work. For the work in special methods some standard text such as Freeland, or Kendall and Mirick, or Betts should be studied.

LIST OF ACCREDITED HIGH SCHOOLS OF ARKANSAS

(Correct to January 1, 1923. Another revision of these lists is made in June. All of these schools are fully accredited four-year high schools. The Class "A" list, with a few exceptions, is composed entirely of schools accredited by the Association of Colleges and Secondary Schools of the Southern States.)

CLASS "A" SCHOOLS

Arkadelphia	Crossett
Arkansas College (Preparatory Department)	Dermott
Batesville	Earle
Blytheville	Eudora
Central College (Preparatory Department)	Fayetteville
Crescent College (Preparatory Department)	Fordyce
	Fort Smith
	Forrest City
	Fourth District Agricultural School (Monticello)

Galloway College (Preparatory Department)	Nashville
Helena	Newport
Henderson-Brown College (Preparatory Department)	North Little Rock
Hendrix College (Preparatory Department)	Ozark
Hope	Paris
Hot Springs	Paragould
Jonesboro	Pine Bluff
Lake Village	Prescott
Little Rock	Rogers
Lonoke	Siloam Springs
Magnolia	Stuttgart
Marianna	Texarkana
Monticello	University High School (Fayetteville)
Mammoth Spring	Warren
	Wilson

CLASS "B" SCHOOLS

Ashdown	Gillett
Atkins	Glenwood
Amity	Gentry
Arkansas City	Greenwood
Augusta	Hamburg
Bauxite	Harrisburg
Bearden	Harrison
Bentonville	Hartford
Benton	Heber Springs
Berryville	Huttig
Booneville	Junction City
Brinkley	Lockesburg
Cabot	Luxora
Camden	Leslie
Carlisle	Lewisville
Charleston	Malvern
Clarendon	Mansfield
Conway	McCrory
Corning	McGehee
Cotter	Mena
DeQueen	Morrilton
Cotton Plant	Mountain Home College (Preparatory Department)
DeWitt	Marked Tree
Dierks	Marshall
Dumas	Mt. St. Mary's Academy
El Dorado	Osceola
England	Parkin
Eureka Springs	Portland
DeVall's Bluff	Piggott
Fouke	Prairie Grove
Foreman	

Ratcliff
Rector
Russellville
Searcy
Sloan-Hendrix Academy (Im-
boden)
Springdale
Stamps
Thornton
Tillar

Tyronza
Tuckerman
Waldo
Walnut Ridge
Watson Chapel (R. F. D. Pine
Bluff)
Waldron
West Helena
Wynne

ADMISSION AS A SPECIAL STUDENT

The dean of the college may, at his discretion, permit a student who has presented fifteen entrance units, to classify as a special student.

A person of mature age, who is not a candidate for a degree, and who does not present the number of units necessary for entrance, may, under certain conditions, be admitted as a special student. Application for admission to the University by this method should be made to the University Examiner. The minimum age limit upon which any person will be permitted to enroll as a special student without presentation of entrance units is twenty years, except in the trade courses in the College of Engineering, and in the short course in the College of Agriculture, where it is sixteen.

Special students are subject to the same regulations as other undergraduate students. They may become candidates for a degree by complying with the necessary regulations. No person will be permitted to register as a special student for more than one year without the permission of the dean of the college concerned. Admission as a special student does not exempt the student from Military Art in the case of men students, or from Physical Education in the case of women students.

ADMISSION TO ADVANCED STANDING

Students presenting transcripts of credits from institutions of recognized standing may receive credit without discount to the extent that the subjects offered for advanced standing may be counted in fulfilling the requirements for a degree in the University of Arkansas. In no case may an undergraduate student receive credit for more than three full year's work. The University reserves the right to revise or cancel an account of advanced standing after a student has been in residence.

Transcripts of credits from institutions not of recognized standing may be dealt with in one of two ways, at the discretion of the University Examiner. (1) A student presenting a transcript may be given a certain amount of provisional credit which he may hold free from qualifications, after he has completed in the University of Arkansas further work in those subjects for

which he is asking advanced credit. (2) Such a transcript may be refused altogether, in which case the transcript is held merely as evidence that the student has studied the subject, and is entitled to make application for an examination for advanced standing. No student will be admitted to examination for advanced standing in any subject unless he can present documentary evidence that he has at some time studied that subject. An application for advanced standing by examination must be made within six weeks after the student first enters the University.

All transcripts of credits should be sent to the University Examiner before the opening of the term in which the student expects to enter, or should be presented to the Examiner immediately upon the student's arrival.

Only officially signed transcripts will be accepted for evaluation. They should include a complete record of the courses pursued, with the number of weeks and hours a week spent upon each subject. If occasion arises, the Examiner may have the right to demand that a catalog of the years covered by the transcript be also presented.

ADMISSION TO GRADUATE STANDING

A student seeking admission to graduate standing must have completed an undergraduate course of four years, or its equivalent, at the University of Arkansas, or at some other college or university of equal standing. Such a student should present an official transcript of his complete undergraduate record to the University Examiner, who will forward his name to the Senate Committee on Graduate Study with recommendation that he be admitted to graduate standing, or be not admitted as his record may seem to justify. Before a student may become a candidate for an advanced degree, his petition must have the approval of the Senate Committee on Graduate Standing and of the dean of the college in which he expects to study.

FEES AND EXPENSES

BENEFICIARY APPOINTMENTS

Free tuition is granted, under a state law, to one thousand students residing within the state. The appointments are apportioned to the various counties according to population, and are obtained from the county judge. Those who are unable to obtain appointments from the county judge may receive them from the President of the University until the number of one thousand is reached.

FEES

All fees must be paid in advance to the Auditor at the beginning of each term. No student will be allowed to attend classes until his fees are paid.

Matriculation, student activities, and library fee (paid by all students) each term.....	\$ 8.00
Tuition fee (paid by all non-resident students and by others who do not hold beneficiary appointments) each term	10.00
Diploma fee (payable at graduation).....	10.00
Certificate fee (payable at graduation).....	5.00

A fee of one dollar will be charged to students entering late, for each day beyond the close of registration. This fee will not be charged against new students.

A laboratory fee is required of all students pursuing laboratory courses. Students who break or destroy apparatus or equipment in the laboratories will be required to pay the cost of it.

The amounts of laboratory fees, fees for music, etc., are given under the proper courses.

EXPENSES

The following estimates, based upon data secured from students recently in attendance, will give some idea of the cost of attending the University for a year, although it should be realized that some few courses entail additional expense which will raise these averages:

	Low	Moderate	Liberal
Board, laundry, heat, and light.....	\$245	\$300	\$360
Books, instruments, and other supplies..	20	30	40
Other expenses	25	35	60
Matriculation fee and student activities fee.....	24	24	24
	<hr/> \$314	<hr/> \$389	<hr/> \$484

BOARD AND ROOM

The men's dormitories provide accommodation for about two hundred and fifty students. The rooms are furnished with beds, springs, mattresses, chairs, and tables. A charge of one dollar a month from September to June, inclusive, for each occupant is made. The recreation rooms and parlors in Hill Hall have been reconstructed, refurnished, and made very attractive. Board, heat, light, laundry, water, and janitor service are provided at cost, which is from \$25.00 to \$30.00 a month.

The women's dormitory provides accommodation for about one hundred and twenty students. For rooms, furnished except for linen, towels, and bedding, a charge of one dollar a month from September to June, inclusive, for each occupant is made. The cost of board, including light, water, heat, and janitor service, is from \$26.00 to \$30.00 a month.

Reservations for room in any of the dormitories may be made by application either to the Auditor of the University, or to the matrons of the dormitories. In order to hold a room, however, it will be necessary for the applicant to deposit a fee of \$5.00 with the Auditor of the University on or before September 1. The reservation fee will be credited to the student on his room rent. Room reservation fees deposited before the first of September are returnable before that date. After September 1 the fee is not returnable.

Lodging in private homes near the University may also be had at reasonable rates. Boarding places, other than the dormitories, must be selected from a list approved by the University authorities, and may not be changed except by the consent of the Dean of Women, or of the President.

OPPORTUNITY FOR SELF SUPPORT

About one-fourth of the students in the University are earning some part of their expenses by assisting in the dormitory dining-rooms and University offices, or doing work for townspeople. A large number secure employment through the assistance of the Y. M. C. A. or Y. W. C. A. Every effort is made to secure employment for students desiring work. A student should, however, ordinarily be able to bring with him or to secure during the year, at least \$150.00.

STUDENT LOAN FUND

The Arkansas Federation of Women's Clubs has established a loan fund for worthy students, whereby young men and women can obtain financial assistance to continue their education. Further information may be had by writing to Mrs. A. Marinoni, Chairman, Fayetteville, Arkansas.

ORGANIZATION AND ACTIVITIES

CONVOCATION

Convocation exercises for the faculty and students are held in the auditorium on the first floor of University Hall at the call of the President. The programs consist of addresses and lectures by men in public life, discussions of University affairs and problems, and musical numbers. Attendance at convocation exercises is required of all freshmen and sophomores.

CHRISTIAN ASSOCIATIONS

The Christian Associations stand for spiritual, mental, social, and physical development. Their mission is to befriend and inspire the students, and to train them for religious, as well as business, social, and intellectual leadership after leaving the University. Each association employs a general secretary who gives full time to the work.

The Y. M. C. A. holds religious meetings every Thursday evening, and Gospel teams are sent out on many Sunday afternoons to hold services at nearby country churches. A strong Friendship Council is another part of the work. A number of delegates go to the Student conferences, held each summer at Hollister, Mo.

The Y. W. C. A. has an office in University Hall, fitted in a home-like manner, and open at all times to the women students. Weekly vesper services are held on Thursday evening in the Y. W. C. A. room at Carnall Hall, and Sunday morning matins are observed. At the beginning of the year the Big Sister work helps freshmen in getting adjusted to their new environment. The University Y. W. C. A. helps to support a secretary in Shanghai, China.

Much of the work of the Associations is carried on jointly. A mission Sunday School in a suburb of Fayetteville is directed by students, and during the year schools and a Christmas tree are given. Both Associations have Bible discussion groups led by faculty members and students. Special emphasis is put on World Fellowship work, and a Student Volunteer Band has been organized.

The social life of the University is much helped by the Associations, which give a reception at the beginning of the year, in honor of the new faculty members and students. Hallowe'en, Valentine, and other socials, are given.

Speakers of national and international reputation are brought to the University under Association auspices, and strong emphasis is placed on evangelistic and life-work campaigns. No

other organizations on the campus have so large a field of usefulness or so unifying an influence. Practically every student is an Association member.

DEBATE

The University holds annual debates with other collegiate institutions, each institution being represented by one team on the affirmative side of the question and one team on the negative. The debates are held usually during the second week of April. Each member of the intercollegiate debating team is awarded an "A" to be worn on a lap or pin in recognition of his services, and is allowed four term hours of credit toward a degree (see Public Speaking 542).

ATHLETICS

The Athletic Board of Control, composed of four members of the faculty and three students, has general charge of athletics. The Director of Athletics, assisted by special coaches for football and baseball, has the immediate supervision of all athletic activities for men students. The instructor in physical education for women supervises athletics for women.

The University is a member of the Southwest Intercollegiate Athletic Conference, and as such is governed by the rules of the Conference in all intercollegiate athletic contests. Some of the more important rules of eligibility are:

1. No student shall participate in any intercollegiate athletics until one year from the date of his registration in the institution which he represents, except as a member of the freshman team. The University provides for the coaching of a freshman squad and arranges a schedule of games for the freshman football team.

2. No person not an amateur shall be allowed to represent any member of the Conference in any athletic contest.

3. A student transferring from one institution of collegiate rank to another shall not be eligible to compete in intercollegiate athletics until he has been a student for one year in the institution to which he transfers.

4. No person shall be permitted to participate in intercollegiate athletics who is not a student in good and regular standing, who is not taking at least the minimum amount of work prescribed in the regular course of study in his institution, and who is not making a passing grade in at least two-thirds of the normal amount of work prescribed.

5. No student shall be eligible to compete in intercollegiate athletics, who, during his last semester in attendance, failed to pass two-thirds of the normal work for his course.

6. If a man be dropped from an institution of the Conference on account of scholastic deficiency, he shall not be eligible to

compete in athletics until he shall have completed one full year's work, passing two-thirds of the work taken.

UNIVERSITY ORGANIZATIONS

The *American Institute of Electrical Engineers*, local branch, meets weekly for the presentation of original papers and discussion of professional topics. All students interested in electrical engineering are eligible to membership.

The *American Association of Engineers*, local chapter, meets monthly. Its purpose is to promote the interests of the engineering profession, to make it more useful in public affairs, and to aid its members in securing employment.

The *University Society of Civil Engineers* meets weekly for the presentation of original papers and the discussion of current technical literature.

The *American Society of Mechanical Engineers*, local section, meets bi-weekly for the presentation of original papers and discussion of professional topics. Occasionally a lecture by some prominent engineer takes the place of the regular program.

The *Agricultural Club* meets weekly to discuss topics of practical and theoretical interest to students of agriculture and current topics of general interest. Occasional lectures by experts in agriculture take the place of the regular programs.

The *Education Club* meets bi-weekly for the discussion of problems of educational research being conducted by the more advanced students of the group, and the presentation by them, and by faculty members and invited guests of prominence in the field of education, of modern discoveries and methods.

The *Home Economics Club* is an organization of students who desire to promote the standards and ideals of home economics, and who wish to create a basis for wholesome social development.

The *Pre-Medical Club* is composed of students who are planning to take up the study of medicine. The object of the club is to give these students an opportunity of hearing lectures on medical subjects.

The *Math Club* meets bi-weekly for programs of talks and papers on topics of interest in mathematics.

The *Science Club* meets bi-weekly for discussions, lectures, and papers by interesting speakers in the current scientific world.

The *University Orchestra* meets weekly for ensemble playing of lighter music and of standard overtures. Membership is competitive.

The *University Band* plays weekly and takes part in all outdoor functions, parades, etc., in the University. Membership is competitive.

The *Garland-Lee*, and *Periclean* literary societies for men meet

Saturday evenings to render programs consisting of prepared and extemporaneous debates, speeches, and readings.

The *Sapphic Literary society* for women meets Thursday afternoons.

The *Black Friars* meets bi-weekly for the study of plays, classic and current, and for general information in matters pertaining to the drama and to the theater. Membership in the society is limited to twenty-five.

The *Glee Club* is open to all men students. Membership is determined by competition. A trip is taken in the state every spring.

HONOR SOCIETIES

Tau Beta Pi is restricted to engineering students. The object of the organization is to encourage scholarship and to foster liberal culture among engineering students. Eligibility to membership is based upon high scholarship and character.

Stull and Torch is restricted to juniors and seniors in the College of Arts and Sciences and the College of Education who are candidates for a degree. Eligibility to membership is based upon high scholarship and personal character.

Alpha Zeta is restricted to upperclassmen in the College of Agriculture. Eligibility to membership is based upon high scholarship and character.

Pi Kappa is an honorary sorority for young women interested in journalism. Election to Pi Kappa comes as a reward for consistent and efficient work on University publications.

Pi Delta Epsilon is restricted to upperclassmen. The purpose of the organization is to promote the interest of college journalism by making membership conditional upon faithful and efficient service on college publications.

Alpha Tau Kappa is restricted to intercollegiate orators and debaters. The aim of the organization is to encourage and reward meritorious effort in public speaking.

Phi Alpha Theta is an honorary historical society based on interest and achievement in its chosen field.

Stafford and Wade is restricted to cadet officers. Eligibility to membership is based upon efficiency, personal character and influence, and interest in military affairs.

ALUMNI ASSOCIATION

The Alumni Association of the University of Arkansas on June 16, 1919 adopted a new constitution which extended its membership to include all former students in good standing who were regularly enrolled in the University for one year. The association meets annually on Monday of Commencement week. Dr. A. M. Harding, Director of General Extension, is serving as general secretary, with the assistance of an office secretary

provided by the association. The alumni bulletin is published under the direction of the general secretary.

Branch associations have been organized in Little Rock, Fort Smith, and Jonesboro. Plans have been made for similar units in other parts of Arkansas and in other states.

STUDENT PUBLICATIONS

The Arkansas Traveler, published weekly by student editors, is devoted to current news and matters of interest to the University as a whole.

The Razorback is published annually by the junior class. It contains pictures of individuals, classes, and organizations and serves as a history of the school year.

The Arkansas Engineer is issued quarterly by the students of the College of Engineering.

HONORS, SCHOLARSHIPS, AND PRIZES

SCHOLARSHIPS

Women's Clubs Scholarships. The Federation of Women's Clubs of Arkansas offers two annual scholarships, one for men and one for women. Competitive examinations are held in June by the county examiner or county superintendent under the direction of University authorities. Persons who wish to take the examination should notify the University Examiner before May 1. Graduates of the high schools of Little Rock, Fort Smith, Helena, Texarkana, Pine Bluff, and Hot Springs are not eligible. The scholarships pay approximately \$150 each.

Daughters of the Confederacy Scholarship. The Daughters of the Confederacy of Arkansas have provided one scholarship.

Elks' Scholarship. The Benevolent and Protective Order of Elks has provided a scholarship to be awarded by the Federation of Women's Clubs. Correspondence should be addressed to Mrs. Edwin Bevins, Helena, Arkansas.

University Scholarships. The Board of Trustees has provided one scholarship annually to be awarded to the honor graduate of each fully accredited public high school within the state. In case a particular high school does not select any member of the graduating class as the honor graduate, the scholarship shall be awarded to the student who has made the highest average in his studies for the entire high school course. The scholarship grants exemption from the payment of matriculation, student activities, and library fees.

Departmental Scholarships. not exceeding ten in number, and paying approximately \$150 a year, will be awarded each year

to graduate students and seniors. These scholarships are open to graduates of the University of Arkansas and of other institutions. In return for the stipend received the student will be expected to give a reasonable amount of assistance in the work of the department. Students desiring to apply for these scholarships should make application to the head of the department having charge of the field of work in which the student wishes to specialize.

HONORS

By a system of departmental, class, and graduation honors, the University gives official recognition of attainments in scholarship.

Departmental Honors. To be eligible for departmental honors, a student must have passed in at least twenty-seven term hours in the particular department with a grade of "A." From the students who are eligible for honors in a department, the teaching force of that department will select the first and second. As a basis for this selection, all of the work done in the department, and general class standing, if necessary, will be considered.

Class Honors. Any student who passes in at least twenty-four hours of collegiate work, receives a grade of "A" in not less than eighteen hours, and ranks not less than "C" in any course, will receive class honors.

Honors at Graduation. Any student who makes class honors in both his junior and senior years will be termed an honor graduate.

All honors are published at commencement, and in the catalog for the following year.

All students who are honor graduates have the fact noted in their diplomas.

PRIZES

William Jennings Bryan Prize. The Hon. William Jennings Bryan has given to the University the sum of \$250, the interest on which is offered annually as a prize for the best essay on some topic relating to the problems of government. The contest is open to juniors and seniors. Further information may be obtained from the professor of economics and sociology.

Troy W. and Jessie Lewis Economic Essay Prize. Mr. Troy W. Lewis, of Little Rock, offers annually a prize of \$10.00 to that member of the senior class who writes and submits the best essay on some economic subject. Further information may be obtained from the executive secretary to the president of the University.

Chi Omega Prize. The Chi Omega sorority offers at each institution at which it has a chapter an annual prize of \$15.00

for the best essay on some topic connected with the study of sociology. The contest is open to all women of the University who are pursuing courses in economics or sociology.

Brough Debating Medal. Ex-Governor Charles Hillman Brough, formerly head of the Department of Economics and Sociology at the University, offers a medal of the value of \$20.00, or a cash prize of \$20.00, for excellence in debate, to be contested for by two representatives of each of the literary societies. Under the conditions of the award, two debates must be held during the year, one formal, in which the speeches are prepared, valued at sixty per cent, and one informal, in which the speeches are extemporaneous, valued at forty per cent. These debates are designed to train students in the art of forensic speaking and to promote a friendly rivalry between the literary societies.

Engineers' Prizes. The Arkansas Chapter of the American Association of Engineers offers annually two prizes as follows: A prize of \$20.00 will be given each year for the best thesis on an Engineering subject written by an electrical, mechanical, or civil engineering student. Copies of the completed thesis are to be forwarded to the Secretary of this Association at Little Rock, Arkansas. A prize of \$10.00 will be given each year to any engineering student who wins first place honors in an oratorical contest upon a subject, or subjects, foreign to engineering work.

Science Club Prize. The Science Club of the University offers a prize of a medal, or of scientific books or apparatus of like value, to a member of the senior class upon the basis of his grades in science courses pursued in residence at the University up to the beginning of the last term of his senior year.

RULES AND REGULATIONS

Each student at the time of registration is given a copy of the rules and regulations for undergraduate students, for the observance of which he will be held strictly responsible.

GOVERNMENT

The government of the University is vested primarily in a Board of Trustees, consisting of the Governor of the State and the State Superintendent of Public Instruction, as ex-officio members, and seven other members, appointed by the Governor for a term of six years.

The administration of the University is vested in the President, the University Council, the University Senate, and the faculties and deans of the various colleges.

The President is the administrative head of the University. The University Council is composed of the President, the deans

of the several colleges, and four other members, appointed by the President. The Council is the central executive body of the University and is advisory to the President.

The University Senate is composed of the President, the Registrar, the deans, and all heads of departments and full professors. The Senate is the general legislative body of the University.

The faculty of each college within the University has jurisdiction, subject to higher University authority, over all matters that concern exclusively that college.

The dean of each college is responsible for the carrying out of all University regulations within his college. The Dean of Women acts as an advisor to women undergraduate students and is charged with the general care and conduct of these students.

A system of student government under faculty guidance known as "The Associated Students of the University of Arkansas" is now in successful operation. Through student-elected officers, a Student Senate, an Advisory Council, and other boards, a close form of control by the students themselves is effective over all student activities.

DISCIPLINE AND ATTENDANCE

Students are required to be diligent in the pursuit of their studies and regular in their attendance at class. Those who fail to meet these requirements will be required to withdraw.

Students are required to attend all meetings and examinations of courses for which they are registered. For each eleven credit hour absence the student will be required to complete one extra hour for graduation.

Absences with athletic teams, debating teams, or other organizations which leave the University on official work, and absences of individuals who are permitted by the President to leave the University on official business pertaining to the University, or some organization thereof, are counted at half rate, provided the coach, manager, or other person in charge, files with the Registrar, before leaving the University, a certificate, upon a form prescribed by the University, for each student who proposes to make the trip.

Absences due to sickness of the student, or of a member of his immediate family, or to death in the student's immediate family, count at half rate, provided the student files in the office of the Registrar, not later than one week after his return to classes, upon a form prescribed by the University, a statement of the cause of his absence verified by the certificate of the attending physician. Such certificate forms may be obtained from the office of the Registrar.

Students incurring absences in accordance with the above reg-

ulations may have the privilege of making up the lost recitations, as evidenced by turning in written work, or in some other manner satisfactory to the instructor concerned. When such lost recitations have been made up, the remaining absences are removed. Applications for the privilege of making up absences must be made to the Registrar *within one week* from the time of return to the University.

Each absence on the first day of any term, or on the day preceding or following any holiday, counts as four, unless the student files with the Registrar a statement showing that such absence was caused by illness, death in the family, or some other cause which the Registrar may deem adequate.

The Registrar will, at any time he may deem advisable, report to the Committee on Attendance and Discipline any student who absents himself from his University duties without good reason.

A student who is absent from an examination must explain his absence to the University Examiner within a time set by the Examiner. Failing to do so, he will be given a grade of "F" in the course."

In accordance with state law, all students, members of the faculty, and employees of the University are required to present certificates of successful vaccination. Students who fail to present certificates will not be allowed to attend classes.

REGISTRATION

Students are required to matriculate and classify before the beginning of each term. Those who enter a course late will be held accountable for all work of the course previous to their entrance.

STUDENTS' WORK

A student in his first term at the University, unless he is registered in a class higher than the freshman, is not permitted to carry a greater number of hours than the normal number required in his course, provided that the dean of the college concerned may at his discretion allow such student to carry one hour more than the maximum prescribed. Students who have done work of an exceptionally high grade in the high school may be exempted from the operation of this rule by permission of the dean of the college concerned.

A student who has failed in any subject (not including physical education and military art) in any term will not be allowed the next following term to carry more than the normal number of hours required in his course.

The dean of the college in which a student is enrolled may, at his discretion, limit the number of hours that the student will be allowed to carry.

A student may enroll in two classes when a conflict occurs only by permission of the dean of the college and of the heads of the departments concerned. In no such case will a student be allowed to lose more than one-third of the time devoted to recitation in either class. The student will be charged with all absences incurred through such conflict.

COURSE SYMBOLS

The numbers of the regular college courses contain three digits: the first indicates the college year, the second the number of hours of credit a week; the third, the particular course.

These numbers are distributed as follows:

101 to 199—Courses which are open to freshmen.

201 to 299—Courses which are required of sophomores in one or more of the colleges, or elective for sophomores, juniors, or seniors.

301 to 399—Courses which are required of juniors in one or more of the colleges, or elective for juniors and seniors.

401 to 499—Courses which are required of seniors in one or more of the colleges, or elective for seniors.

501 up —Open electives for sophomores, juniors, and seniors.

Courses with double or triple numbers, in parenthesis, as English 131 (132) (133), run through two or three terms, respectively, and credit will not be allowed until the final term's work is completed. If the numbers are not in parenthesis, credit will be allowed for single terms' work.

No student may enroll in a course until he has successfully completed all prerequisites to that course.

Courses indicated by a star (*) may be elected by graduate students for credit towards an advanced degree.

CREDIT HOURS

The number of term credit hours allowed in each course is identical with the number of hours a week spent upon that course except that in the laboratory, shop, or field work two to three hours will be considered equivalent to one hour of lecture or recitation.

GRADING AND EXAMINATIONS

The following grading system is in effect: A, B, C, D, (passing grades); E (conditional failure), F (absolute failure). A student receiving a grade of "E" may remove it by an examination. A student receiving a grade of "F" will not receive credit for the course except by repeating it in class. A student receiving a grade of "D" in any subject will have an opportunity to raise this grade by passing an examination. Should he elect to take such examination, the grade made upon the examina-

tion will become a part of his permanent record in place of the first grade made.

Examinations to raise the grade "D" or to remove the grade "E" will be given on Monday and Tuesday of registration week in the student's next succeeding college year. In the case of seniors applying for graduation, a re-examination either to remove the grade "E" or to raise the grade "D" may be given in the same year prior to commencement at a time set by the Examiner.

Seniors applying for graduation and carrying the requisite work to entitle them to graduation, may, upon the recommendation of the instructors concerned, be excused from final examinations in each course in which their grade is as high as "B." Notices of exemption are sent by the Examiner near the end of the term.

If for any reason a student drops a course after the sixth week of the term, and if the student's work during the time that he attended the course was below the grade of "D," there will be entered on his record a grade of "F" in that course; if "D" or above, he will be marked "Excused" in that course.

In a "model" class (one in which all qualities of work are represented), the following scale of percentages in the different grades may be taken as approximate:

- A, not more than ten per cent;
- B, not more than twenty per cent
- C, from forty to fifty per cent;
- D, approximately twenty per cent;
- E and F combined, not more than ten per cent.

REQUIREMENTS FOR GRADUATION

In all divisions of the University, except the College of Arts and Sciences, no student will be graduated who has a failing grade on his record which has not been removed by satisfactory repetition of the class-work, or by examination, or excused by the faculty of the college concerned.

No student will be allowed to graduate from any division of the University if more than twenty-five per cent of his work is of the "D" grade.

In addition to completing the prescribed course of study, candidates for a degree are required to do at least the work of the senior year in residence.

UNIVERSITY AUDITING

The financial accounts of all student organizations handling more than fifty dollars per annum, are audited by the executive secretary to the President. A system whereby all checks must be countersigned by this official offers an opportunity for the fullest publicity and develops a sense of financial responsi-

bility in student treasurers. The combined funds draw interest on deposit, which is divided *pro rata* among the organizations.

COLLEGE OF ARTS AND SCIENCES

The object of the courses offered in the College of Arts and Sciences is to cover the broad field of general university study, including ancient and modern languages and literatures, history and the social sciences, mathematics, the natural sciences, and the fine arts. It aims to afford the student an opportunity to gain a broad, cultural education, as well as to equip himself for further study in more technical fields.

ADMISSION

For a detailed statement of the entrance requirements and a description of the subjects accepted for entrance see previous pages.

GRADE POINTS

Grade points are awarded on the following basis:

For grade A, 6 points for each hour.

For grade B, 4 points for each hour.

For grade C, 2 points for each hour.

For grade D, credit, but no points.

For grade E, 1 negative point for each hour.

For grade F, 2 negative points for each hour.

No change in grade points will be allowed unless the subject be repeated in class.

In case of exemption from final examination, grade points will be granted as for grade of "B."

COURSES OF STUDY

The College of Arts and Sciences offers four-year courses leading to the degree of *Bachelor of Arts* (B. A.), *Bachelor of Science* (B. S.), and *Bachelor of Music* (B. M.); a graduate course leading to the degree of *Master of Arts* (M. A.); and special courses in music leading to a diploma.

Candidates for degrees, who wish to teach in the schools of any state which requires professional preparation of its teachers, should take as part of their elective work the courses mentioned by the College of Education. They will then receive both the degree and the teachers' certificate which will entitle them to teach in any school in the state without being required to pass examinations for a teachers' license.

REQUIREMENTS FOR DEGREES BACHELOR OF ARTS

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily at least

two hundred one term hours in approved courses with grade points amounting to four hundred two, to be chosen with the following restrictions:

1. Prescribed courses as follows: English 131 (132) (133), nine hours; Military Art, six hours (for men), or Physical Education, six hours (for women).

2. Elective courses to be chosen from the following groups, with the restrictions noted below:

Group 1: English, French, German, Greek, Italian, Latin, and Spanish.

Group 2: Astronomy, Botany, Chemistry, Geology, Mathematics, Physics, and Zoology.

Group 3: Economics, Education, History, Philosophy, Political Science, Psychology, and Sociology.

Group 4: Agriculture, Engineering, Fine Arts, Law, Medicine, Home Economics, and Bible.

a. The candidate may elect not more than sixty hours in any one subject, and not more than one hundred twenty hours from any one group. At least twenty-seven hours must be elected from group 1, and fifty-four hours from groups 2 and 3 combined, including not less than eighteen hours from each of these two groups (provided these fifty-four be exclusive of any course or courses offered from another college in the University), and not more than twenty-seven may be elected from group 4. A maximum of thirty-six term hours may be offered from the College of Education toward the degree of Bachelor of Arts. No course in Agriculture or Engineering is allowed for credit toward the degree of B. A. except by permission of the head of the department in which the student is majoring, and of the dean of the college.

b. No elementary course in science can apply toward requirements of group 2 unless it contains at least nine term hours.

c. The candidate must select, not earlier than the beginning of his sophomore year, and not later than the beginning of his junior year, one major subject, to be chosen from group 1, 2, or 3, in which he must complete not less than forty-five hours, and two minor subjects, in which he must complete not less than twenty-seven and eighteen hours respectively, subject to the approval of the candidate's major professor and the dean of the college. A description of the major requirements of each department will be found under the departmental statements.

d. The candidate will be required to complete, in the combined high school and college courses, at least thirty hours of one foreign language, at least nine hours of which must be taken in college classes. In computing the total, each unit of high school work will count as equivalent to six hours of college work. The student must continue his language study until his

requirement is satisfied, which, in case of a modern language, means a satisfactory working knowledge of that language.

e. The candidate must conform as closely as possible to the following schedule in the distribution of his work:

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131, 132, 133.....	3	3	3
Military Art 111, 112, 113 (or)			
Physical Education 111, 112, 113.....	1	1	1
*Elective	12	12	12
	16	16	16

Sophomore Year

Military Art 211, 212, 213 (or)			
Physical Education 211, 212, 213.....	1	1	1
*Elective	16	16	16
	17	17	17

Junior Year

*Elective	17	17	17
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Senior Year

*Elective	17	17	17
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BACHELOR OF SCIENCE

*Freshman Year**

English 131-3—9 hours.

Military Art 111-3—3 hours.

Science, 24 to 27 hours from:

Botany 141-143.

Chemistry 141-143 or 144-145.

Geology 147-149.

Mathematics 133, 150, 151, 152.

Physics 141-143 or 144-146.

Zoology 144-146.

Electives from:

Foreign Languages.

Mathematics.

History.

Art.

Mechanical Drawing.

Sophomore Year

Military Art. Major or Minor subject in Science, 9-12 hours.

Science, 24 to 27 hours from:

Botany 141-143.

*Note.—One subject other than English begun in high school must be continued in the Freshman year.

*Note.—To be chosen with the advice and consent of the candidate's major professor.

Chemistry 141-143 or 144-145.
 Geology 147-149.
 Mathematics 133, 150, 151, 152.
 Physics 141-143 or 144-146.
 Zoology 144-146.

Electives from:
 Foreign Languages.
 Psychology.
 Economics.
 History.

*Junior Year**

Major Subject.
 Minor Subject.
 Foreign Language.*
 Elective:

Education	} In Junior or Senior Years
English Composition (advanced)	
Any subject accepted for A. B. degree	

Senior Year

Completion of all Major and Minor requirements as follows.

Plan I: Major Science no less than 54 hours (as in present Chemistry course); two minor sciences no less than 45 hours.

Plan II: Major Science no less than 45 hours; two minor sciences no less than 54 hours.

Completion of a total of at least 111 hours of science courses.

Completion of no less than 18 hours in Group III of B. A. course (9 hours, exclusive of Education) during four years.

Completion of any language requirements not previously absolved.

Pre-Medical Course

Students who have completed no less than three full years of college work including the subjects which are required for admission to the Medical College of the University of Arkansas or any standard approved Medical College, may offer the first year's work done at the Medical College to fulfill the requirements of the senior year at the University of Arkansas.

Such students should make application to the dean of the College of Arts and Sciences before April 1 of the year in which

*Note, II—The total of Foreign Language must include 24 hours in one or two foreign languages, including 12 hours which must be taken in college classes.

*Note III. By the end of the junior year at least four general introductory courses of 12 hours each in the laboratory sciences must be completed.

the degree is expected. The degree will be conferred upon official advice from the registrar or dean of the Medical College, including a transcript of the student's record, or a certificate setting forth the fact that the work completed constitutes a full year's work satisfactorily completed in Medical College.

The subjects included in the curriculum of such students and the electives chosen during the junior year must include subjects in Groups 1, 2, or 3 of the catalog, so selected that the student will be able to enter the particular Medical College of his choice with the necessary prerequisites in every subject, and must aggregate a total of 150 hours.

All standard medical schools now require a minimum of two years of college work for entrance. The curriculum for these first two years is as follows:

Freshman Year

Chemistry	141, 142, 143
French	141, 142, 143
or German	141, 142, 143
Zoology	144, 145, 146
or Botany	141, 142, 143
English	131, 132, 133
Military Art.....	111, 112, 113

Sophomore Year

Chemistry	251, 354, 355
French	331, 332, 333
or German	231, 232, 233
Botany	141, 142, 143
or Zoology	144, 145, 146
Physics	141, 142, 143
Military Art	211, 212, 213

Wherever possible it is decidedly preferable for a student to spend three or four years in premedical work at the University. In such cases one of the sciences listed in the sophomore year should be postponed and an elective substituted. For the third and fourth years further work in the subjects above mentioned, as well as in Latin, Psychology, Mathematics should be taken.

BACHELOR OF MUSIC

In the following curriculum, majors and minors must be drawn from practical music—piano, pipe organ, violin, or voice.

<i>Freshman</i>	<i>Hrs. Each Term</i>	<i>Sophomore</i>	<i>Hrs. Each Term</i>
Major Music.....	2	Major Music	2
Harmony 1	1	Physical Education	1
Appreciation 1.....	1	Minor Music	2
Public School Music.....	2	Public School Musi.	2
Foreign Language	4	Harmony 2	1
English	3	History of Music.....	1
History	3	Foreign Language	4
Physical Education	1	English	4
	<hr/> 17		<hr/> 17

	Hrs. Each Term		Hrs. Each Term
<i>Junior</i>		<i>Senior</i>	
Major Music	2	Thesis	1
Minor Music	2	Recital	1
Counterpoint	1	Canon and Fugue	2
Form and Analysis	2	Selection and Interpretation	2
Appreciation 2	1	Pedagogy (Music)	2
Ensemble Music	2	Major Music	2
Electives	3	Electives	6
Psychology	4	Appreciation 3	1
	<hr/> 17		<hr/> 17

Choral singing is offered each year during the winter and spring terms as an elective, two hours each week.

MASTER OF ARTS

The degree of Master of Arts is granted for graduate work based upon an undergraduate course of four years, with the degree of *Bachelor of Arts*, completed at this University, or another college or university of equal standing. Before a student may become a candidate for the degree, however, his petition for admission to graduate standing must have the approval of the Senate Committee on Graduate Study and the dean of the college.

1. The minimum time in which a candidate may be permitted to complete the degree is one academic year. In individual cases, where the committee deems it necessary, more than one year may be required.

2. The candidate is required to complete one major subject and not more than two minor subjects in closely related courses. The major subject, including, with the thesis, at least twenty-four credit hours, must be one in which the candidate has received credit in his undergraduate course for at least thirty-six credit hours. The minor subjects, occupying together eighteen credit hours, must be those in which he has received credit in his undergraduate course for at least eighteen credit hours each. The choice of the candidate's major and minors is subject to the approval of the committee, the dean of the college, and the major professor.

3. Forty-two of the forty-eight hours required of the candidate must be regular class-room work. Candidates who are graduates of this University may pursue one-half of the required work by correspondence, provided that their undergraduate records are satisfactory to the committee and to the dean of the college.

4. A student may be admitted to graduate standing without becoming a candidate for a degree, by permission of the committee and the dean of the college.

SPECIAL COURSES IN THE DEPARTMENTS OF MUSIC

The department of Music offers special courses, the completion of which is attested to by a diploma. The purpose of these courses is to give opportunity to persons who do not desire to become candidates for a degree, but who wish to do special work in music, together with a small amount of work in courses of a general cultural nature, in preparation for teaching, or as a basis for further study.

Candidates for a diploma in music must meet the entrance, residence, and registration requirements, and must complete satisfactorily the following courses of study. Students who receive this diploma must show evidence of four years of college training in music.

First Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 141 (142) (143).....	4	4	4
Foreign Language	3-5	3-5	3-5
History or Economics.....	3-5	3-5	3-5
Theory of Music 111, (112) (113).....	1	1	1
Theory of Music 114, (115) (116).....	1	1	1
Theory of Music 117, (118) (119).....	1	1	1
*Piano, Violin, Voice, or Organ.....	1	1	1
Physical Education 111, (112) (113).....	1	1	1
Psychology 140, 245 (or 342), 230.....	4	4	3

Second Year

English 542, (543) (544).....	4	4	4
Foreign Language	3-5	3-5	3-5
Theory of Music 211, (212) (213).....	1	1	1
*Piano, Violin, Voice, or Organ.....	1	1	1
Physical Education 211, (212) (213).....	1	1	1

DEPARTMENT STATEMENTS

ANCIENT LANGUAGES

ACTING PROFESSOR HANCOCK, MR. HAMBLIN

Requirements for a Major in Latin or ancient languages: forty-five credit hours. Students who expect to teach Latin in secondary schools should complete course 147 (148) (149) and at least nine hours of more advanced work.

*In instrumental and vocal music no definite number of hours can be stated; the applicant must show the attainment of sufficient knowledge, technique, and ability before a diploma will be granted. In general, this course requires three to six years of study. In addition to the study of the major instrument the candidate will be required to spend at least one year in the study of some other instrument, or of voice, subject to the approval of the head of the department.

Latin

111 (112). **LATIN AND GREEK WORD-ROOTS IN ENGLISH.**—Requires no knowledge of the Greek language and but one year of Latin. Gives a working knowledge of the common roots used in the formation of English words, both technical and general. Especially for students of science who do not continue Latin. Winter and spring. **HANCOCK.**

114 (115) (116). **ELEMENTARY LATIN COMPOSITION.**—Required of all students taking 131 and of those taking 134 who have had no equivalent course. One hour a week. **HANCOCK.**

131 (132) (133). **CICERO'S SPEECHES AND LETTERS.**—Six speeches, and selections from the letters; a review of forms and syntax; introduction to the use of good English in translation. For students who offer two units of Latin for entrance. See course 114 (115) (116). **HANCOCK.**

134 (135) (136). **VERGIL'S ÆNEID.**—Due attention is given to forms, syntax, and prosody, but the chief aim is an appreciation of the poem as literature. For students who offer three units of Latin for entrance. See course 114 (115) (116). **HAMBLIN.**

141 (142) (143). **ELEMENTARY LATIN FOR BEGINNERS.**—Grammar and exercises. Caesar, four books. To meet the needs of students in the sciences, and to lay a foundation for those students who intend to continue Latin or the modern languages. Will admit to Latin 131. **HAMBLIN.**

147. **CICERO'S ESSAYS.**—The *De Amicitia*, with a thorough review of forms and syntax at the beginning. Fall and spring.

148. **LIVY.**—Selections from Livy, Books XXI-XXII. Fall and winter.

149. **LATIN COMEDY.**—The *Phormio* of Terence. Winter and spring.

These courses, in any order, are open to those who have had four units of Latin, or 134-136. **HANCOCK, HAMBLIN.**

511 (512) (513). **ADVANCED LATIN COMPOSITION.**—Translation of English narrative and study of Latin idioms. Essential to students who are preparing to teach Latin. Prerequisite: Latin 147-149. **HAMBLIN.**

514 (515) (516). **LANGUAGES.**—To show close connection between Latin and the Romance languages. Open to students who present two entrance units of Latin and who have not less than the equivalent of a full year in college of one Romance language. **HAMBLIN.**

531. **CICERO.**—Selections from the Letters. Fall.

532. **JUVENAL AND MARTIAL.**—Juvenal's Satires; Martial's Epigrams. Winter.

533. **PLINY.**—Selections from the letters. Spring.

The incidental object of courses 531-533 is to acquaint the

student with Roman public and private life. Prerequisite: Latin 147-149. HAMBLIN.

*534 (535) (536). ROMAN POETRY.—Reading of selections from Roman poets. An attempt made to secure a good general view of the whole field of Roman poetry. Prerequisite: Latin 531-533. HANCOCK.

537. HISTORY OF ROMAN LITERATURE.—Mackail's Latin Literature, supplemented by lectures and assigned reading in English translations of the more important authors. Winter.

538. GREEK AND ROMAN MYTHOLOGY; ITS USE IN ENGLISH LITERATURE.—A systematic study of the classical myths that underlie all literature. Each student will trace a particular myth through English literature. Those having a knowledge of Latin will investigate Latin sources. Fall.

539. ROMAN PRIVATE LIFE.—Johnston's Private Life of the Romans. Lectures illustrated by stereopticon and supplemented by collateral reading and reports. Spring. Courses 537, 538, 539 presuppose no knowledge of Latin. HAMBLIN.

Greek

131 (132). ELEMENTARY GREEK.—Assuming a fair knowledge of Latin Grammar, the essentials of Greek form and syntax are covered rapidly, with much illustrative reading and comparatively little drill. For students who offer no Greek for entrance. Fall and winter. HANCOCK.

143. XENOPHON. Selections from Anabasis, Cyropedia, and Memorabilia; practical review of syntax, some prose composition and sight reading. Prerequisite: Greek 131 (132). Spring. HANCOCK.

531. GREEK LIFE IN GREEK ART.—A history of Greek art and architecture with emphasis upon its relations to Greek life, character, and history. Illustrated lectures, outside readings, frequent quizzes. Not open to freshmen. Fall. HANCOCK.

543 (544). GREEK LITERATURE IN TRANSLATION.—To give students of any literature a knowledge of the form and content of the literature that has influenced most widely other literatures. In the first quarter epic and lyric poetry will be studied; in the second, prose and drama. Lectures, class reading, collateral reading, and frequent tests. Winter and spring. HANCOCK.

ATHLETICS

PROFESSOR SCHMIDT, MR. GROVE

111. FOOTBALL. For freshmen. Ten hours practice a week. Fall. GROVE.

211. FOOTBALL. University team, first year. Practice, ten hours a week. Fall. SCHMIDT.

311. FOOTBALL. University team, second year. Practice, ten hours a week. Fall. SCHMIDT.

114. PHYSICAL TRAINING. Indian clubs, drills, dumbbells, calisthenics, group games. Two hours a week. Fall. SCHMIDT AND GROVE.

112. BASKETBALL. For freshmen. Practice, ten hours a week. Winter. GROVE.

212. BASKETBALL. University team. Practice, ten hours a week. Winter. SCHMIDT.

113. BASEBALL. For freshmen. Practice, ten hours a week. Spring. SCHMIDT.

213. BASEBALL. University team. Practice, ten hours a week. Spring. SCHMIDT.

313. TRACK. For freshmen. Practice, ten hours a week. Spring. GROVE.

413. TRACK. University team. Practice, ten hours a week. Spring. GROVE.

513. TENNIS. Practice, five hours a week. SCHMIDT AND GROVE.

BOTANY

PROFESSOR BUCHHOLZ, ASSISTANT PROFESSOR DELLINGER,*

MR.———.

Requirements for a major in Botany: forty-five credit hours, which should include 341, 522 or 523, 534, 545, 556 or 546, and Plant Pathology 4 hours or Bacteriology 4 hours. Students majoring in Botany are advised to elect some courses in the related sciences. Certain advanced courses are given only in alternate years. Juniors and seniors who major in Botany are expected to attend the seminar.

141. ELEMENTARY BOTANY.—The fundamental structures and physiological processes of higher plants, with special reference to the nature of economic plants. Bacteria, and a few other types of microscopic plants. Lectures and recitations three hours, laboratory three hours. Fall. Fee, \$2.50. BUCHHOLZ AND MR.———.

142 (143). ELEMENTARY BOTANY.—The life histories of the great groups of plants in the order of their evolution, affording a brief general survey of the plant kingdom. Special emphasis placed on the disease producing fungi. In the spring the work merges into a systematic course in the classification of seed plants. Field trips taken on Saturdays, or during afternoons as part of the laboratory work, for a study of the local flora. Lectures and recitations three hours, laboratory three hours. Winter and spring. Fee, \$2.50. BUCHHOLZ AND MR.———.

149. THE LOCAL FLORA. NATURE STUDY.—Chiefly the identification of trees, shrubs, and wild flowers, intended for stu-

*Acting Professor of Zoology.

144 (145). GENERAL CHEMISTRY.—The same as the above course, but adapted to the needs of students offering an admission unit in chemistry. Fall and winter. Fee, \$4.00 each term. HUMPHREYS AND ASSISTANTS.

257 (258) (259). GENERAL CHEMISTRY (ENGINEERS).—Prerequisite: Physics 149. Fee, \$5.00 each term. HALE, HUMPHREYS, AND ASSISTANTS.

242. ELEMENTARY ORGANIC CHEMISTRY.—Designed especially for students in Agriculture and Home Economics. Lectures and recitations three hours, laboratory three hours a week. Prerequisite: 141-143. Spring. Fee, \$4.00. WERTHEIM.

251, 241. QUALITATIVE ANALYSIS.—A practical course with lectures and recitations dealing with the theory involved. Lectures and recitations two hours, laboratory nine or six hours a week. Prerequisite: 143. Fall and Spring. Fee, \$6.00 and \$5.00, respectively. PORTER.

232. ADVANCED QUALITATIVE ANALYSIS.—Continuation of 251, with lecture and recitation one hour, laboratory six hours a week. Prerequisite: 241. Winter. Fee, \$5.00. PORTER.

254, 244. QUANTITATIVE ANALYSIS.—The theory and practice of the subject, including the most important gravimetric and volumetric methods. Lectures and recitations two hours, laboratory nine or six hours a week. Prerequisite: 241. Fall and winter. Fee, \$6.00 and \$5.00, respectively. PORTER.

255. ADVANCED QUANTITATIVE ANALYSIS.—Continuation of 254 with similar hours. Winter and spring. Fee, \$6.00. PORTER.

331 (332). SPECIAL ORGANIC CHEMISTRY.—A shorter course for pre medical students. Lectures and recitations two hours, laboratory three hours a week. Prerequisite: 241. Fall and winter. Fee, \$4.00 each term. WERTHEIM.

333. SPECIAL ORGANIC CHEMISTRY.—The work presented is such that 331 (332), 333 approximately equal 354 (355). Lectures, laboratory and fees as in 332. Prerequisite: 332. (Not given in 1923-24.) Spring. WERTHEIM.

354 (355). ORGANIC CHEMISTRY.—Theory of organic reactions and laboratory work illustrating the practical applications. Lectures and recitations three hours, laboratory six hours a week. Prerequisite: 241. Fall and winter. Fee, \$5.00 each term. WERTHEIM.

*350. INDUSTRIAL CHEMISTRY.—The practical application of chemistry to industry, special attention being given to actual or possible manufacturing establishments in this state. One or more inspection trips are taken. Lectures and recitations five hours a week. Prerequisites: 254, 354. (Not given in 1923-24.) Spring. HALE.

*434. HISTORY OF CHEMISTRY.—The development of chemistry, intended to furnish a helpful basis for the present day

science. Lectures and recitations three hours a week. Prerequisites: 254, 354. Fall. HALE.

*435 (436). ADVANCED INORGANIC CHEMISTRY.—The underlying facts and principles are studied in some detail. Lectures and recitations three hours a week. Prerequisites: 254, 354. Winter and spring. HALE.

*437 (438). ADVANCED ORGANIC CHEMISTRY.—A more thorough study of certain topics for advanced students. Lectures and recitations three hours a week. Prerequisites: 254, 355. Spring. WERTHEIM.

*449. ORGANIC QUALITATIVE ANALYSIS.—Analysis and identification of simple organic compounds by the "group" or "class reaction" method. A paper on some general reaction will be presented by each student. Reading knowledge of German is desirable. Lectures two hours, laboratory six hours a week. Prerequisites: 241, 355. Fall. Fee, \$5.00. WERTHEIM.

*451 (452). PHYSICAL CHEMISTRY.—The general principles of natural science with especial reference to the principles, theories and generalizations of chemistry. The method of attacking a problem, the apparatus used, and a study of certain fundamental principles are covered in the laboratory work. Lectures and recitations three hours, laboratory six hours a week. Prerequisites: 255, Physics. Winter and spring. Fee, \$5.00 each term. PORTER.

522, 523. INORGANIC PREPARATIONS.—Chiefly laboratory work with an insistence upon the principles and economic value of the process. Six hours a week. Prerequisite: 244. Winter. Fee, \$5.00 each term. HUMPHREYS.

524, 525. ORGANIC PREPARATIONS.—Similar to 522, 523. Prerequisites: 241, 355. Spring. Fee, \$5.00 each term. WERTHEIM.

531. AMERICAN CHEMISTRY.—The fundamental importance of chemistry in our modern life and the real contribution the United States has made and is making to chemistry. A non-technical course, intended to be of cultural value. Lectures and recitations three hours a week. Spring. HALE.

533. METALLURGY.—Lectures and recitations treating of principles and practice three hours a week. Prerequisite: 241. Winter. PORTER.

537. SPECIAL PHYSICAL CHEMISTRY.—A shorter course for pre-medical students. Lectures and recitations three hours a week. Prerequisites: 244, 354. (Not given in 1923-24.) Spring. PORTER.

*631-639. SPECIAL METHODS IN QUANTITATIVE ANALYSIS.—Sanitary Water Analysis, Petroleum Technology, Electro-Analysis, Ultimate Organic Analysis, Coal and Coke Analysis, Analysis of Road Materials, Analysis of Certain Rocks, etc. Chiefly laboratory work with conferences. The amount of credit to be

arranged with the individual student before he registers for the course. Prerequisite: 244. Fee, \$6.00 each term. Each term as demanded. **HALE, WERTHEIM, PORTER.**

*816, 817. **CHEMICAL SEMINAR.**—Members of the faculty, graduates, and advanced students meet weekly for the discussion of articles in the current chemical literature. Prerequisites: 244, 354. Winter. **HALE.**

*831. **CHEMICAL RESEARCH.**—Problems in research for graduates or others considered capable of successfully attacking them. Credit will vary in accordance with the amount of work done. Each term as demanded. **HALE, WERTHEIM.**

ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, ASSOCIATE PROFESSOR JAMISON,
MR. PEASE

The primary purpose of the courses is to assist the student in understanding the functions, the purposes, and the significance of our complex economic and social institutions.

Requirements for a Major in Economics: Forty-five credit hours, including courses 540 (541), 549, 640, and 730 (731). Students in the College of Education preparing to teach commercial subjects may complete a major in this department with courses 520 (521), 540 (541), 546 (547), 647, 730 (731), and fifteen hours of electives.

540 (541). **PRINCIPLES OF ECONOMICS.**—An introduction to the fundamental economic principles underlying the production, valuation, distribution, and consumption of economic goods. Prerequisite: Sophomore standing. Fall and winter. **BRANDENBURG, JAMISON, PEASE.**

530, 531. **BUSINESS ORGANIZATION AND MANAGEMENT.**—A brief review of the successive forms of business organization, with the causes of such development and a study of modern economic conditions as applied to business; the development and control of large business units. Prerequisite: 540 (541). Fall and winter. **JAMISON.**

522. **CREDITS AND COLLECTIONS.**—Mercantile credit, sources and analysis of credit information; credit insurance; the Bankruptcy Acts; collection agencies and collection departments. Prerequisite: 540 (541). Spring. **PEASE.**

545. **TRANSPORTATION.**—Transportation facilities as determinants of market situations; the economics of the good roads movement; the cost and service of inland waterways, steam and electric railways; ocean ports and carriers. Prerequisite: 540 (541). Spring. **JAMISON.**

546 (547). **COMMERCIAL LAW.**—The laws that govern business transactions such as contracts, agency, negotiable instruments, bailments, insurance, sales, corporations, and the transfer

of real property. Prerequisite: 540 (541). Fall and winter. PEASE.

*549. ECONOMIC HISTORY OF THE UNITED STATES.—Our national economic development, and the economic influences operative in our territorial and population growth. Special attention to recent improvements in technique and methods of industry, and to the place of the United States in the economic life of the world. Prerequisite: 540 (541). Fall. BRANDENBURG.

630 (631). ECONOMIC STATISTICS.—The theory and practice of statistics in economic and social problems; sources, and methods for collecting data bearing on prices, production, population, and other economic and social problems; means of correlation and interpretation of such data. Prerequisite: 540 (541). Fall and winter. PEASE.

633. RURAL SOCIOLOGY.—The problems and conditions of farming; land, rural population, farm labor; the school, the church, and other rural institutions; the effects of occupation and isolation; vice, crime, and poverty in the country; the relation of the farmer to other economic classes. Prerequisite: 640 (641). Spring. JAMISON.

640 (641). PRINCIPLES OF SOCIOLOGY.—The development of social institutions from primitive to modern times. The relationships existing among men; the possibilities of betterment. Prerequisite: 540 (541). Fall and winter. JAMISON.

642. PROBLEMS OF SOCIAL BETTERMENT.—An examination into the nature, causes, and treatment of selected social problems, discussed in the light of modern sociological thought. Prerequisite: 641. Winter. JAMISON.

*645. BANKING PRINCIPLES.—The historical development of our present banking system, with particular emphasis on relations existing among national and state banks and the Federal Reserve system. Prerequisite: 540 (541). Spring. PEASE.

646. FOREIGN COMMERCE.—The economic basis of foreign trade; historic trade routes and centers; character and capacities of foreign markets; principles and technique of foreign trade. Prerequisite: 540 (541). Spring. BRANDENBURG.

*647. CORPORATION FINANCE.—Organization of the corporation; the problem of proper capitalization; the financial plan, corporate securities, management of corporate income; receivership, and reorganization. Prerequisite: 540 (541). Spring. PEASE.

648. SELLING AND MARKETING.—Advertising plans, campaigns, and media; analysis of market and product; distribution of advertising costs; the organization, operation, and function of marketing agencies. Prerequisite: 540 (541). Spring. JAMISON.

639. INDUSTRIAL MANAGEMENT.—Location, arrangement, and equipment of industrial plants; methods of departmental organ-

ization; control of branches and agencies; securing and interpreting industrial data. Prerequisite: None. Fall. PEASE.

*730 (731). **ELEMENTARY ACCOUNTING.**—The theory and practice of double entry bookkeeping, illustrating the uses of the fundamental books, the interpretation and classification of accounts, preparation and analysis of statements. Prerequisite: 540 (541) or concurrent registration. Fall and winter. PEASE.

*732. **ADVANCED ACCOUNTING.**—Partnership and corporation accounts; treatment of capital stock accounts, no par value stock, capitalization, amortization, depreciation. Prerequisite: 730 (731). Spring. PEASE.

*741. **GOVERNMENT REGULATION OF INDUSTRY.**—The problems created by the growth of large business; pools, trusts, holding companies, the Sherman and Clayton Acts, and subsequent state and federal legislation; the Federal Trade Commission and the enlargement of the field of government control. Prerequisite: 540-541. Spring. JAMISON.

*742. **PUBLIC FINANCE.**—The theories and methods of raising and distributing public revenue as applying to Federal, State, and local fiscal systems; special study of Arkansas tax problems. Prerequisite: 540-541. Winter. BRANDENBURG.

*743. **SCIENTISM AND SOCIAL REFORM.**—The historical background of scientism; scientism as a criticism of classical political economy and existing institutions, as a theory of social progress, and as a program of social reform; other plans and projects for economic reconstruction. Prerequisite: 540 (541). Spring. BRANDENBURG.

*745. **LABOR ORGANIZATIONS.**—Industrial relations primarily from the point of view of organized workers: origin and development of labor unions and employers' associations; types, purposes, and policies of these organizations; methods of settling industrial disputes. Prerequisite: 540 (541). Fall. BRANDENBURG.

*746. **LABOR LEGISLATION.**—Industrial relations primarily from the point of view of the state. The basis of labor legislation; federal and state laws and court decisions affecting conditions of labor; woman and child labor laws; social insurance. Prerequisite: 540 (541). Winter. BRANDENBURG.

*747. **LABOR ADMINISTRATION.**—Industrial relations primarily from the point of view of the employer. Labor turnover; absenteeism; selection and training of workers; efficiency methods; welfare work; labor committees and industrial councils. Prerequisite: 540 (541). Spring. BRANDENBURG.

(Note.—These three courses, 745, 746, 747, constitute a unit and should be taken in sequence. Each, however, is complete in itself and will be credited separately.)

*748. **INSURANCE.**—The principles underlying insurance; the chief kinds of insurance; types of policies and contracts; the

regulation of insurance. Prerequisite: 540 (541). Spring. JAMISON.

331 (332). AGRICULTURAL ECONOMICS.—The principles underlying the organization of agriculture as a science with a view to profit for the farmer and benefit to the nation. Includes a discussion of credit needs, problems of farm labor, tenancy, marketing, transportation, and prices. Prerequisite: None. Fall and winter. JAMISON.

*430 (431). HISTORY OF ECONOMIC THOUGHT.—A study of economic theory from the time of the Mercantilists to the beginning of the twentieth century. Prerequisite: 540 (541). Fall and winter. BRANDENBURG.

433. BUSINESS LAW.—For senior students in Engineering only. A condensation of course 540-547. Prerequisite: None. Winter. PEASE.

ENGLISH

PROFESSOR JONES, PROFESSOR J. C. JORDAN, ASSOCIATE PROFESSOR HASTINGS, ASSOCIATE PROFESSOR SHEEHAN, ASSISTANT PROFESSOR HOLCOMBE, MISS DAVIS, MR. BERARD, MR. STORY, MRS. BRANDENBURG

The aim of the course is (1) to train students to write English clearly and correctly, and (2) to teach them to understand and to appreciate the best in literature. Every course in composition, therefore, is accompanied by a considerable amount of required readings, and every course in literature requires a certain amount of written criticism.

Requirements for a Major in English: Fifty-four term hours, including courses 131 (132) (133), 542 (543) [or 144 (145) (146)], 531 (532) or 547 or Public Speaking 534 (535) (536) or Journalism 631 (632) (633) and two from the following three: 641 (642), 643, 644 (645). Students who expect to teach English in the secondary schools should complete at least forty-five term hours in English with some credits in literature and some in language.

Students taking up journalism should consult the head of the department at the beginning of their sophomore year.

English

131 (132) (133). RHETORIC AND COMPOSITION.—Recitations, themes, conferences, and required reading, three hours a week. Some practice in argumentation, description, and narration, but the chief drill is in expository writing. *Required of all freshmen except those who are admitted to English 144-6.* JONES, JORDAN, HASTINGS, HOLCOMBE, DAVIS, BERARD, STORY AND BRANDENBURG.

144 (145) (146). COMPOSITION AND LITERATURE.—Intended for those students who have had four years of English in the high

school and who have shown marked proficiency in the subject. No student is admitted without the consent of the instructor. This course may be substituted for English 542-543 as a prerequisite to advanced courses. JONES.

231 (232) (233). ENGLISH COMPOSITION.—Required of all students in the College of Arts and Sciences who do not make a grade higher than 'D' in Freshman English. Consists largely of practice in writing and intensive drill in correct usage of spoken and written English. JONES.

331 (312) (333). ENGLISH COMPOSITION.—Technical writing, with some study of scientific and technical articles of various kinds. Open only to students in the Colleges of Agriculture and Engineering, who have credit for English 131-3, or its equivalent. Lectures, recitations, and themes throughout the year. Prerequisite: 131-3. HASTINGS.

531 (532). ADVANCED COMPOSITION.—To teach the principles of composition and to develop the ability to write clear and vigorous prose. Themes, a stated readings, and conferences. Prerequisite: 131-133. Fall and winter. HOLCOMBE.

542 (543). ENGLISH LITERATURE IN OUTLINE.—The life and literature of the English people from Anglo-Saxon times to the close of the nineteenth century. Lectures, study of the works of representative authors, reports, and critical essays. Prerequisite: 131-133. Fall and winter. JONES, HASTINGS, BERARD DAVIS, AND STORY.

544. AMERICAN LITERATURE. General course. Lectures and readings. Prerequisite: 542-543. Spring. HOLCOMBE AND HASTINGS.

545. ENGLISH PROSE FICTION. Various types of prose fiction from the romance of the sixteenth century to George Eliot. Lectures, readings, and critical reports. Prerequisite: 542-543. Fall. HASTINGS.

546. CONTEMPORARY LITERATURE. Recent and contemporary English and American poets and novelists. Prerequisite: 542-543. Winter. HASTINGS.

547. THE SHORT STORY. Consists partly in the reading and criticism of short stories, and partly in story writing. Lectures and recitations. Prerequisite: 542-543. Spring. BERARD.

*548. EIGHTEENTH CENTURY LITERATURE. Primarily a study of the prose and poetry of the 'Classical' period, with an attempt to outline the principles of Classicism. Lectures and recitations. Prerequisite: 542-543. Spring. JONES.

*549. BRITISH ROMANCE. POETS IN THE NINETEENTH CENTURY.—Deals principally with the poetry of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. Lectures and recitations. Prerequisite: 542-543. Fall. JORDAN.

*641 (642). CHAUCER.—Chaucer's language and literary style.

Consent of the instructor necessary. Lectures and recitations. Fall and winter. HOLCOMBE.

*643. ANGLO-SAXON.—To give a knowledge of the earliest form of English. Constant comparison of modern English with Anglo-Saxon. Lectures and recitations. Prerequisite: 542-543. (Not given in 1923-24.) Spring. JONES.

*644 (645). SHAKESPEARE.—A critical study of a few plays. Lectures and recitations. Prerequisite: 542-543. Fall and winter. JONES.

*646. THE DRAMA IN ENGLAND FROM 1580 TO 1642.—The Elizabethan dramatists, exclusive of Shakespeare. Prerequisite: 542-543. Spring. JORDAN.

647. TENNYSON AND BROWNING.—Emphasis is placed upon the art and thought of Tennyson and Browning in their relation to modern life. Lectures and recitations. Prerequisite: 542-543. Winter. JORDAN.

648. LYRIC POETRY.—The greatest examples of lyric poetry, in English and other literatures. Lectures and recitations. Prerequisite: 542-543. Spring. HASTINGS.

649. THE CONTEMPORARY DRAMA—Recent plays in Europe and America. Lectures, reading, and dramatic criticism. Prerequisite: 542-543. Spring. HOLCOMBE.

741. MILTON.—An intensive study of the poetry of Milton, with some consideration of his prose. Lectures and recitations. Prerequisite: 542-543. Spring. HOLCOMBE.

*742. ESSAYS OF THE NINETEENTH CENTURY.—Attention is given chiefly to Lamb, DeQuincey, Macaulay, Carlyle, Emerson, Newman, and Arnold. Lectures, readings, and reports. Prerequisite: 542-543. Spring. JORDAN.

*743. LITERARY CRITICISM. The more generally accepted principles of literary criticism and their application to the chief types of literature. Consent of instructor necessary. Lectures and recitations. Spring. JONES.

*744. COMPARATIVE LITERATURE.—General survey of some of the more important works of Continental writers and of literary tendencies since the Renaissance, with stress upon such as have been influential in England. Consent of instructor necessary (Not given in 1923-24.) Winter. JONES.

Public Speaking

531 (532). ARGUMENTATION.—The course aims to teach the principles of argumentation and afford practice in the application of these principles in frequent discussions and debates. Lectures, recitations, reading, and class exercises. Prerequisite: English 131-133. Fall and winter. JORDAN.

534 (535) (536). PUBLIC SPEAKING. Lecture and text-book work based upon the principles of effective public speaking, and

training in both formal and informal address. Lectures, recitations, class exercises. Prerequisite: English 131-133. JORDAN.

542 INTERCOLLEGIATE DEBATE.—The question for intercollegiate debate is studied and briefed, and frequent practice debates are held. Open only to students who have been awarded places on the intercollegiate debating squad. Winter. JORDAN.

Journalism

537 (538) (539). NEWSPAPER WRITING.—For students who expect to make journalism their profession, and for those who desire some training in newspaper methods. News-gathering; press associations; news values; writing of news. Made practical by carrying on class work in connection with daily newspaper and student publications. Prerequisite: English 131-133. Fee, \$1.00 each term. SHEEHAN.

621 (622) (623). NEWSPAPER EDITING.—The editing of copy, correcting proof, writing headlines, making up, rewriting, and other details of editing; the organization and methods of local, state, and national news gathering. Prerequisite: Journalism 537-539. Alternates with Journalism 631. (Not given in 1923-24.) Fee, \$1.00 each term. SHEEHAN.

631 (632) (633). SPECIAL FEATURE ARTICLES AND EDITORIALS.—The special feature article in newspaper and magazine is studied and analyzed as a form, and practice in writing is given with a view to publication. The same is done with the editorial. Prerequisite: Journalism 537-9. Alternates with Journalism 621-3. (Not given in 1924-5.) Fee, \$1.00 each term. SHEEHAN.

FINE ARTS

MR. TOFFY, MISS GALBRAITH, MRS. CROCKETT, MRS. STONE, MRS. PARMALEE, MISS GWATHMEY, MISS REQUA, MISS GILLESPIE, MR. MITCHELL, MR. HANSARD

The department offers courses in the theory of music, piano, violin, voice, art, expression, and history of music. A statement of the requirements for admission will be found on previous pages for both regular and special students.

Courses in music leading to a diploma or a degree are outlined on previous pages.

Six term hours of credit toward the Bachelor of Arts degree will be allowed for work in music, of which not more than three hours shall be allowed for courses in piano, violin, and voice. No credit is allowed unless the student takes at least two lessons a week for a full year.

Credit for pipe organ will be allowed toward the A. B. degree and in the College of Education for the first year's work.

Special Fees

Piano, or Organ, with Director, a term.....	\$33.50
Organ, or Piano, with Assistant, a term.....	26 50
Voice, Violin, a term.....	26 50
Study of Appreciation, a term.....	4 00
Harmony, in class, a term.....	6.00
Form and analysis.....	6.00
History of Music, in class, a term.....	6 00
Counterpoint, a term.....	6.00
Piano Practice, one hour daily, a term.....	3.50
Diploma fee for completion of the special Diploma course in music.....	5.00
Choral Music.....	4.00

Theory of Music

111 (112) (113).	HARMONY - One hour a week. MITCHELL.
211 (212) (213).	ADVANCED HARMONY.—One hour a week MITCHELL.
114 (115) (116).	HISTORY OF MUSIC.—One hour a week. TOVEY.
117 (118) (119).	APPRECIATION I.—One hour a week. TOVEY.
311 (312) (313).	COUNTERPOINT.—One hour a week. TOVEY.
217 (218) (219).	APPRECIATION II.—One hour a week. TOVEY.
317 (318) (319).	APPRECIATION III.—One hour a week. TOVEY.
324 (325) (326).	FORM AND ANALYSIS. TOVEY.
424 (425) (426).	ENSEMBLE MUSIC. HANSARD.
427 (428) (429).	CANON AND FUGUE. TOVEY.
524 (525) (526).	SITUATION AND INTERPRETATION. TOVEY.
528, 529.	CHORAL MUSIC. TOVEY.

Piano

The aim is to develop technical control and the power of musical conception as adapted to artistic ends.

PREPARATORY GRADE. TOVEY, STONE AND MITCHELL.

INTERMEDIATE GRADE. TOVEY, STONE AND MITCHELL.

ADVANCED GRADE. TOVEY AND MITCHELL.

ACCOMPANIMENT. TOVEY.

THE TEACHING OF MUSIC.—For students who expect to teach music. TOVEY.

Violin

The instruction is designed to develop correct technique. In addition to the studies, the student is given compositions of standard composers. HANSARD.

Pipe Organ

This course prepares for church playing and concert work.
TOVEY AND GILLESPIE.

Voice

The purpose is the correct production of tone and the building and development of the voice according to the old Italian method. Special stress is laid on breath control, accuracy of tone, distinct articulation, the study of intervals, scale building, sight reading, and phrasing. PARMALEE.

PUBLIC SCHOOL MUSIC, AND SUPERVISORS' COURSE. PARMALEE.

Art

This department seeks to lay the foundation for a thorough art education. Its purpose is to awaken in the student an appreciation of beauty and to cultivate self expression in form and color. The advantages offered enable both elementary and advanced students to pursue the study of art while taking a college course. Twenty-seven term hours of credit toward the Bachelor of Arts degree will be allowed for work in art. The department offers courses in fine and applied arts, normal art, and the history of art.

117, 118, 119. SKETCH CLASS.—Drawing from pose. Two hours a week. GALBRAITH.

121, 122, 123. ELEMENTARY FREEHAND DRAWING.—Drawing from still life, casts, flowers; perspective. Four hours a week. GALBRAITH.

124 (125) (126). ELEMENTARY DESIGN.—Principles of design in line, value, and color. Three hours lecture, two hours laboratory a week. REQUA AND GWATHMEY.

127 (128) (129). ELEMENTARY NORMAL ART.—The teaching of art in the grades. Planning courses of study. Observation. Practice teaching. Four hours a week. REQUA.

221 (222), 223. COSTUME DESIGN.—Concerned first with the essentials of taste in dress; second, with the principles of design in form and color as they relate to clothes; and third, with the study of the figure and its relation to clothes design. REQUA.

233 (234) (235). HISTORY OF ART.—A brief study of the history of painting, architecture, and sculpture. Lectures illustrated by prints and lantern slides, together with text and reference reading. Three hours a week. GALBRAITH.

321, 322, 323. COMMERCIAL DESIGN.—The development of the advertising idea as it relates to the selling qualities; its adaptations to various types of commodities; the technique of composition, drawing, color, and lettering. GWATHMEY.

441 (442). HOUSE DESIGNING AND FURNISHING.—Simple floor

plans for houses, the intelligent planning of construction in various materials, the rendering of drawings of trim, openings, paneling, chimney pieces, and other features. Color harmonies and furnishings in interiors. Fall and winter. **GWATHMEY.**

443. **CIVIC ART.**—The outside of the house, its color, plan of walks, gardens, and lawn. Special attention is given to civic, co-operative work. **Spring. GWATHMEY.**

521, 522, 523. **FREEHAND DRAWING.**—Drawing and painting from still life and costume model. Four hours a week. **Prerequisite: 121-3. GALBRAITH.**

627 (628) (629). **ADVANCED NORMAL ART.**—The teaching of art in high schools. Four hours a week. **Prerequisite: 127-9. GALBRAITH.**

Expression

The aim of the courses is (1) to secure naturalness and freedom from selfconsciousness in reading and speaking; and (2) to train the student to arrive at a correct understanding of literature and the appreciation of its spirit and essence through vocal interpretation. The student is made to realize that the reader's concept is mental. The voice and body are trained to willing obedience to this mentality. Close attention is given to voice culture and correct articulation. Considerable attention is given to public reading and dramatic presentation. Eighteen hours of term credit toward the Bachelor of Arts degree will be allowed for work in expression.

131 (132) (133). **VOCAL EXPRESSION.**—The fundamental principles in the correct use of the body and voice in speaking and reading, accuracy of observation, and care in analysis. The student is trained to read aloud simply, easily and naturally, from the Old and New Testament, Emerson, Longfellow, Sheridan, and Shakespeare. Story-telling, one-act plays, speech-making, and dramatic interpretation. **CROCKETT.**

221. **THE TEACHING OF READING.**—For prospective public school teachers, aiming to give a definite, practical method of instruction which shall apply to each grade. **Prerequisite: 131-133. Fall. CROCKETT.**

521, 522, 523. **VOCAL INTERPRETATION.**—An advanced course in the interpretation of literature. Special attention given to the study of Tennyson, Browning the dramatic monologue, various forms of literature, and literary analysis. **Prerequisite: 131-133. CROCKETT.**

523, 524, 525. **VOCAL EXPRESSION AS ART.**—Impersonation, gesture, dialect, reading, recitation, play reading, preparation of programs, and "cutting" and adapting selections for the platform. Students required to prepare selections and present them before the class for criticism. Frequent studio recitals. One or two hours a week. **Prerequisite: 131-133. CROCKETT.**

531 (532) (533). **DRAMATIC INTERPRETATION OF SHAKESPEARE'S PLAYS.**—A careful analysis and reading of three or four plays. At the end of the year one play will be given in costume. Students are advised to take English 644 (645). Two terms required. Prerequisite: 131-133. CROCKETT.

534 (535) (536). **PLAY READING AND PLAY PRODUCTION.**—Plays are read aloud or put into rehearsal in order that students may vitalize the character and perceive the fundamental thing—the reaction of one thought and emotion upon another. Frequent readings by the instructor from masterpieces of the drama. Public presentation of plays. The class is affiliated with the Drama League of America. Open only to advanced students. Two terms required. Prerequisite: 131-133, or the equivalent. CROCKETT.

GEOLOGY

PROFESSOR CADY AND ASSISTANT PROFESSOR THOMAS

Requirements for a Major in Geology: forty-five term hours, not including 146; in addition, English 531, 532, or its equivalent; also twelve term hours in each of four subjects, other than Geology, included in Group 2, and either an additional six term-hours in any two of the subjects except Geology included in Group 2 or an additional twelve term-hours in any one of these subjects other than Geology. Students expecting to teach General Science are advised to take 144 146 or 147-149 and 145. It is recommended that students primarily interested in Geography, Economics, or History, take 144, 145 and 249.

144. **PRINCIPLES OF HUMAN GEOGRAPHY.**—A study of the physical background of geography and the relation of physical environment to man's activities. Juniors and seniors registering for this course must complete the equivalent of one hour of extra work. No prerequisite. Three recitations and three hours of laboratory. Fall and winter. Fee, \$1.50. CADY.

333. **PRINCIPLES OF HUMAN GEOGRAPHY.**—Same as 144, and meeting with 144. Open only to juniors and seniors. No prerequisite. Three recitations and three hours of laboratory. Fall and winter. Fee, \$1.50. CADY.

145. **PHYSIOGRAPHY AND METEOROLOGY.**—Land forms, weather, and climate. Three recitations and two hours of laboratory. No prerequisite. Winter and spring. Fee, \$1.50. THOMAS.

146. **ELEMENTARY GEOLOGY.**—A brief course mainly in structural and historic geology. Three recitations and two hours of laboratory. Prerequisite, 145. Spring. Fee, \$1.50. THOMAS.

147, 148, (149). **GENERAL GEOLOGY.**—The beginning course for students expecting to major in Geology. The Geology requirement for the degree of Bachelor of Science. This course may be substituted for the Geology requirement in the College of Agriculture (Geology 230). Geology 147 meets the Geology

requirement in the course of Civil Engineering. Three recitations and three hours of laboratory. Prerequisite: 145 and 146, or one year accredited high school chemistry, or completion of or registration for Chemistry 141 (142) (143). Fee, \$1.50 each term. THOMAS AND CADY.

230. AGRICULTURAL GEOLOGY.—A brief course in rock minerals, rocks, rock weathering and soil formation, and rock structure, with a brief outline of geologic history. Primarily for students in the College of Agriculture, to meet the Geology requirement for graduation. Not open to students who have had 148 or 149 or are taking 147. Two recitations and three hours of laboratory. Prerequisite: Chemistry 143. Fall. Fee, \$1.50. CADY AND THOMAS.

335. GEOGRAPHY AND GEOLOGY OF ARKANSAS.—A study of the climate, physiography, rocks, mineral resources, and geological history of the state. Prerequisite: 149. Winter. THOMAS.

247. GEOGRAPHY OF SOUTH AMERICA.—A regional study of the continent and an analysis of man's adaptations to the varying environments. Prerequisite: 144 or 145. Fall. THOMAS.

248. GEOGRAPHY OF ASIA.—The regional and human geography of Asia. Prerequisite: 144 or 145. Winter. CADY.

249. BUSINESS GEOGRAPHY.—The geographic factor in trade and commerce. Prerequisite: 144. Spring. CADY.

344. GEOLOGY OF NON-METALLIC MATERIALS.—Three recitations and three hours laboratory. Prerequisite: 149. Fall. Fee, \$1.50. THOMAS.

345. GEOLOGY OF METALLIC MATERIALS (ORE DEPOSITS).—Three recitations and three hours laboratory. Prerequisite: 149. Winter. Fee, \$2.00. THOMAS.

221, 222. FIELD GEOLOGY.—Field and laboratory practice in faults and folds and other structural relationships existing in the earth's crust. Two recitations and six hours laboratory. Prerequisite: 149. Spring. Fee, \$2.00. CADY.

221, 222. FIELD GEOLOGY.—Field and laboratory practice in the construction of geologic maps and sections. Equivalent of six hours of laboratory work. Prerequisites: 149 or 330. Spring. Fee, \$2.00. CADY AND THOMAS.

410. GEOLOGICAL SEMINAR.—Reviews and discussions by advanced students and faculty members, or articles in current geographical and geological magazines. Winter. CADY.

GERMAN

PROFESSOR LUSSKY

The aim of the work is to acquaint the student with the German language and with German thought. The practical value of a knowledge of German is particularly emphasized, as is indicated by the courses in scientific reading and composition. The

excellent collection of German books in the University library offers adequate facilities for work in literature. Graduate courses will be given when called for.

Requirements for a Major in German: forty-five term hours. Students preparing to teach German should consult the head of the department as early as possible.

141 (142) (143). **ELEMENTARY GERMAN.**—Grammar, composition, and the reading of easy prose and poetry. No prerequisite. **LUSSKY.**

231 (232) (233). **SCIENTIFIC GERMAN.**—Reading and discussion of works of a general, as well as more specialized, scientific nature. Prerequisite: 141-143. (Not given in same year as 534-536.) **LUSSKY.**

521 (522) (523). **INTRODUCTORY COMPOSITION.**—A thorough review of grammar and practice in the art of composition. Prerequisite: 141-143. **LUSSKY.**

534 (535) (536). **MODERN PROSE READING.**—Reading and interpretation of eighteenth and nineteenth century authors. Prerequisite: 141-143. (Not given in same year as 231-233.) **LUSSKY.**

537 (538) (539). **ADVANCED SCIENTIFIC GERMAN.**—Intensive study of German scientific works of a specialized nature. Prerequisite: 231-233, or 521-523, or 534-536. (Not given in same year as 631-633.) **LUSSKY.**

627 (628) (629). **ADVANCED COMPOSITION AND CONVERSATION.**—Conversation and original composition. Prerequisites: 231-233, or 521-523, or 534-536. **LUSSKY.**

631 (632) (633). **GOETHE AND SCHILLER.**—The lives and selected works of these authors; collateral reading and reports. Prerequisites: 231-233, or 521-523, or 534-536. (Not given in same year as 537-539.) **LUSSKY.**

HISTORY AND POLITICAL SCIENCE

PROFESSOR D. Y. THOMAS, ASSISTANT PROFESSOR GRONERT AND
ASSOCIATE PROFESSOR HANCOCK

The courses are designed to form part of a general cultural education. They are essential to a thorough preparation for law, journalism, politics, ministry, or any other public calling. Course 131 (132) (133) is foundation work and should be taken in the freshman year.

Requirements for a Major in History: forty-five credit hours in history and political science. Students expecting to teach history in the secondary schools should complete at least twenty-seven credit hours in the department. Course 131 (132) (133) should be the basis for this work, and courses 531-536 should follow. At least nine hours should be taken in economics and sociology. Students who expect to pursue graduate work should

take courses 633, 634, 635, or 636, 637, 638, and two years of a modern language.

History

131 (132) (133). **INTRODUCTION TO MODERN AND CONTEMPORARY CIVILIZATION**.—The chief content of this course is history since 1500 with most emphasis on the period since 1815. Emphasis will be laid on economic, cultural, and political developments in an effort to help the student understand the civilization of today. For freshmen. THOMAS AND GRONERT.

531 (532) (533). **HISTORY OF THE UNITED STATES SINCE 1776**.—A general course, dealing with political (including international), economic, and social questions. Some attention given to geography in its bearing upon the development of our history. Prerequisite: 131-133, or sophomore standing. THOMAS.

534 (535) (536). **HISTORY OF ENGLAND TO 1923**.—A general course treating of the political, religious, literary, and economic activities of the English people. The origin and growth of the more important institutions, such as kingship, parliament, courts, and the church; the struggle for democratic government, especially the great reforms of the nineteenth and twentieth centuries, and the movement for social betterment. A brief survey of the British Empire. Lectures and recitations throughout the year. Not open to freshmen. GRONERT.

537. **FRENCH REVOLUTION AND THE NAPOLEONIC ERA**.—France on the eve of the Revolution; French political philosophers; causes and events of the Revolution; and the wars of Napoleon. Prerequisite: 131-133, or sophomore standing. Fall. THOMAS AND GRONERT.

538. **EUROPE IN THE NINETEENTH CENTURY**.—A brief survey of Europe in 1815; the development of constitutional government; the unification of Italy and Germany; and the present condition of world politics. Prerequisite: 131-133, or sophomore standing. Winter. GRONERT.

559. **HISTORY OF HISPANIC AMERICA SINCE 1800**.—A brief survey of the Spanish and Portuguese colonial systems; a careful study of the wars of emancipation; the rise and development of Hispanic-American nations; the relations of these with foreign countries; and the development of Pan-Americanism. Special attention given to the Monroe, Calvo, and Drago doctrines. Prerequisite: 131-133, or junior standing. Spring. GRONERT.

631. **HISTORY OF GREECE**.—The history and institutions of the Greeks. A general knowledge of the subject presumed. Prerequisite, 131-133, or sophomore standing. Winter. HANCOCK.

632. **HISTORY OF ROME**.—The history and institutions of the Romans. A general knowledge of the subject presumed. Prerequisite: 131-133, or sophomore standing. Spring. HANCOCK.

*633. **THE UNITED STATES, 1763-1789**.—A study of the colonies

in their relation to the mother country, with special reference to the attempt at imperial taxation. Particular attention will be given to the literature of the period, as preparing the colonies for separation. The steps leading to the Declaration of Independence, the failure of the Confederation, and the formation and adoption of the Constitution will be studied in detail. For juniors and seniors. Fall. THOMAS.

*634. THE CIVIL WAR AND RECONSTRUCTION.—The first part of this course will deal mainly with the events leading up to the war; the second part with the political, social, and economic phases of Reconstruction. For juniors and seniors. Winter. THOMAS.

*635. INTERNATIONAL RELATIONS.—Colonial expansion and its relation to economic development, international rivalries, the Great War, and subsequent attempts at adjustment. Prerequisite: Nine hours of history, or junior standing. Spring. THOMAS.

*636 (637) (638). HISTORY OF THE BRITISH EMPIRE.—The period of the formation of the English nation; then the rise and growth of the British Empire. A detailed study of the establishment and growth of the British colonies and dependencies in the West Indies, the Americas, Africa, Asia, and Oceania; the gradual development of a British imperial policy; and the British colonial administrative system. Especial attention paid to the struggle for the democratization of English institutions, and social legislation in the self-governing colonies of the Empire. Prerequisites: 131-133, and six more hours in history, or junior or senior standing. GRONERT.

639. HISTORY OF THE PACIFIC AND THE FAR EAST.—The islands of the Pacific and the countries of eastern Asia, particularly China and Japan, and their relations to the western nations. Spring. GRONERT.

*731. AMERICAN DIPLOMACY.—Covers the entire period of the history of the United States, with special attention to the diplomacy of the Revolution and of the second war with England, the Monroe Doctrine and subsequent relations with Latin America, arbitration Asiatic questions, the Great War, and the peace settlement. Prerequisite: fifteen hours of history or political science. Spring. THOMAS.

732. RACE RELATIONS.—The geographical distribution of the races of the world; the present situation of the white race as the dominant race; the history of the negro in America; and the present day aspect of the race (Japanese as well as negro) question in relation to church, education, sanitation, and civil and economic justice. Open only to juniors and seniors. Spring. THOMAS.

*733. RENAISSANCE AND REFORMATION.—A study of the artistic and literary phases of the period known as the Renaissance,

followed by a brief consideration of the social and religious phases of the Protestant Reformation. Prerequisite: 131-133, or sophomore standing. Winter. GRONERT.

*735. FOREIGN RELATIONS OF THE UNITED STATES.—A study of such questions as the Monroe Doctrine, the open door, arbitration, and settlement of the post-war problems. Spring. THOMAS.

Political Science

531. AMERICAN STATE AND LOCAL GOVERNMENTS.—A brief review of the development of American state constitutions; the structure and workings of state governments as organized today, and some of the practical problems now before the states; a brief survey of county and municipal government. Prerequisite: 131-133, or sophomore standing. Winter. THOMAS.

532. AMERICAN NATIONAL GOVERNMENT.—A basic course for more advanced work in government. The organization of our national government and the work of co-ordinate branches, but most emphasis laid upon the work of administration. Open to students who have completed not less than six credit hours in history. Prerequisite: 131-133, or sophomore standing. Spring. THOMAS.

533. POLITICAL PARTIES.—The origin and development of political parties in the United States and their present organization and activities. Prerequisite: nine hours of history, or sophomore standing. Fall. THOMAS.

*534. COMPARATIVE GOVERNMENT.—The structure and powers of the national governments of the United States and of the leading European nations. Special attention given to the place of the federal system in public law. Open only to juniors and seniors. Fall. THOMAS.

*535. INTERNATIONAL LAW.—The development of international law and of the usages and principles now considered binding on civilized nations. Open only to juniors and seniors. Considerable outside reading. Winter. THOMAS.

MATHEMATICS AND ASTRONOMY

PROFESSOR DROKE, PROFESSOR HARDING, EMERITUS ASSOCIATE
PROFESSOR DUNN, ASSISTANT PROFESSOR DAVIS,
MISS HUGHES, MR. TAYLOR

The courses are designed to meet the requirements of: (1) students in engineering; (2) students who expect to teach mathematics; and (3) students who are interested in mathematics for the sake of the subject itself.

Requirements for a Major in Mathematics: fifty-one credit hours, including 253, and twenty-one hours to be selected by the major professor. Students in Engineering will find 536 (537) very helpful. Students preparing to teach mathematics in the secondary schools should complete at least 534 (535), and

Astronomy 131 (132) (133). They should also take courses in the teaching of secondary mathematics and in the history of mathematics. These courses will be offered when there is a demand for them.

NOTE. Students who enter the University in the fall and who present adequate entrance units in algebra should pursue the sequence, 151, 151, 152, 151, 152, 153, in the Freshman year, and 151, 251, 252, in the Sophomore year, and 253 in the Junior year, fall. Students who present one and one-half entrance units of algebra should pursue the sequence, 151, 152, 153, in the Freshman year, and 251, 252, 253, in the Sophomore year.

Mathematics

150. ELEMENTARY ALGEBRA.—A collegiate treatment of advanced high school algebra, designed for students who offer only one unit in algebra for entrance. May be taken by students in the College of Engineering and of Agriculture to remove entrance deficiencies. Five hours a week. Fall. DAVIS.

151. COLLEGE ALGEBRA.—For students in any one of the colleges who offer at least one and one-half units in algebra for entrance. Fall and winter. DAVIS, HUGHES, TAYLOR.

111 (112) (113). SOLID GEOMETRY.—For students in the College of Engineering. DAVIS, TAYLOR.

152. PLANE TRIGONOMETRY.—For students in any one of the colleges who offer one unit of plane geometry for entrance. Prerequisite: 151. Winter and spring. DAVIS, HUGHES, TAYLOR.

153. ANALYTIC GEOMETRY.—For students in the Colleges of Arts and Sciences, of Engineering, and of Education. Prerequisite: 151, 152. Spring and fall. DROKE, DAVIS, HUGHES, TAYLOR.

***251 (252) (253). DIFFERENTIAL AND INTEGRAL CALCULUS.**—Prerequisite: 153. DROKE, DAVIS, HUGHES, TAYLOR.

631 (632) (633). ADVANCED COLLEGE ALGEBRA.—Prerequisite: 151. DROKE, TAYLOR.

534 (535). ADVANCED ANALYTIC GEOMETRY.—A continuation of 153, required of students who major in mathematics. Fall and winter. HUGHES.

536 (537). DIFFERENTIAL EQUATIONS.—Prerequisite: 253. Winter and spring. DAVIS.

131 (132). MATHEMATICS OF FINANCE.—The relation of interest to long-time investments, the cumulative effect of compounding interest, and its relation to annuity, to insurance, to the evaluation and amortization of securities, to the creation of sinking funds, and to funds such as those of building and loan associations. Prerequisite: five hours of college mathematics. Winter and spring. TAYLOR.

130. ALGEBRA AND PLANE TRIGONOMETRY.—For students in the College of Agriculture, including a study of factoring, fractional equations, theory of exponents, radicals, and quadratic equations;

trigonometric functions, functions of multiple and submultiple angles, and solution of triangles. Fall. DAVIS.

531. HISTORY OF MATHEMATICS.—Prerequisite: sophomore standing. Spring. DROKE.

133. SOLID GEOMETRY.—Fall term. HUGHES.

134. SPHERICAL GEOMETRY AND SPHERICAL TRIGONOMETRY.—Prerequisite: 133. Winter. DAVIS, HUGHES.

Astronomy

131 (132) (133). DESCRIPTIVE ASTRONOMY.—Lectures and recitations three hours a week, with occasional meeting at night for observation. HARDING.

MILITARY ART

MAJOR SMITH, CAPTAIN HALPINE, CAPTAIN DILL, SERGEANT GREATHOUSE

Under the provisions of the Act of Congress, approved July 2, 1862, all male students in their freshmen and sophomore years are required to take military art. The course may be elected in the junior and senior years. Officers of the United States Army are detailed to act as professors.

Reserve Officers' Training Corps

The University of Arkansas has complied with the requirements of the War Department and has been officially designated as one of the civil institutions at which shall be maintained units of the Senior Division of the Reserve Officers' Training Corps. Eligibility is limited to students who are citizens of the United States, who are not less than fourteen years of age, and whose physical condition indicates that they are fit to perform military duty, or will be so fit upon arrival at military age.

The course is divided into two parts of two years each; the Basic Course covering the freshman and sophomore years, and the Advanced Course, covering the junior and senior years. Camps, of six weeks duration, are held during the summer. These camps are subdivided into Basic Camps and Advanced Camps. Attendance at the former is voluntary and is open to all members of the Basic Course. Attendance at the latter is open to members of the Advanced Course only, and attendance at one Advanced Camp, prior to graduation, is required of all members of the Advanced Course. All expenses at these Camps, including transportation to and from camp, are paid by the government.

At the conclusion of the sophomore year, those students who have shown marked ability as leaders, who have satisfactorily completed the Basic Course, and whose scholastic standing in other academic subjects is good, are recommended as eligible

for the further training of the Advanced Course by the Professor of Military Science and Tactics, and with the approval of the President of the institution are allowed to enroll in the Advanced Course. Those who so enroll are required to agree in writing to continue in the Corps for the remaining two years and to attend at least one Advanced Camp prior to graduation. Members of the Advanced Course are paid commutation of subsistence, by the government, during the remainder of their service in the Corps at the rate of about twelve dollars a month. Men who satisfactorily complete the four years course will be offered Commissions in the Officers' Reserve Corps as Second Lieutenants of Infantry.

Students may provide their own uniforms, or a uniform will be issued by the Government on deposit of \$15, the deposit to be returned when the uniform is turned in. An additional uniform is furnished those in attendance at Summer Camps. Those attending the Advanced Camp receive pay at the rate of one dollar a day. The total money value of uniform received, commutation of subsistence, rations in kind at Camp, pay at Camp, and transportation to and from Camp for each man who completes the four year course, is \$659.04. There is the privilege of special technical training (see outline of courses below) in various fields without any tuition fee.

111 (112) (113). BASIC COURSE, FIRST YEAR.—Theoretical and practical instruction in organization, physical training, military courtesy and customs of the service, infantry drill, including close and extended order and ceremonies, scouting and patrolling, and rifle marksmanship. GREATHOUSE.

211 (212) (213). BASIC COURSE, SECOND YEAR.—Theoretical and practical instruction in map reading and military sketching, military hygiene, first aid and sanitation, physical training, infantry weapons including the bayonet, automatic rifle, hand grenade and rifle grenade, musketry, and the art of leadership. HALPINE, DILL.

531 (532) (533). ADVANCED COURSE, FIRST YEAR.—Theoretical and practical instruction in the rules of land warfare, military law and its relation to civil law, machine guns, 37 m m gun, trench mortar, field engineering, physical training, and the art of leadership. DILL.

631 (632) (633). ADVANCED COURSE, SECOND YEAR.—Theoretical and practical instruction in military history, administration and supply, organization, minor tactics including the employment of the auxiliary infantry weapons, physical training, and the art of leadership. HALPINE.

PHYSICAL EDUCATION FOR WOMEN

ASSISTANT PROFESSOR SHALEY, MISS ASKEW

The purpose of the work is to improve the standard of health, and to increase the physical efficiency of the young women. A

physical examination is made of every student upon entrance and at such intervals throughout the year as may seem necessary. The work is conducted in the indoor gymnasium, and during suitable weather on outdoor courts. The uniform worn consists of a white middie blouse, black serge bloomers, and gymnasium shoes purchased at the University. The courses in physical education are required of all women students during their freshman and sophomore years. A maximum of nine credit hours may be used toward graduation.

111 (112) (113). **ELEMENTARY PHYSICAL EDUCATION.**—General gymnastics, games, and folk dancing. Two hours. SHALEY, ASKEW.

211 (212) (213). **INTERMEDIATE PHYSICAL EDUCATION.**—General gymnastics, athletic games, aesthetic and folk dancing. Two hours. SHALEY, ASKEW.

514 (515) (516). **ADVANCED DANCING.**—Two hours. SHALEY.

527. **THE TEACHING OF PHYSICAL EDUCATION.** Principles of physical education as applied to the teaching of games, folk dances, marching, and the coaching of basket ball and tennis. Two hours. Winter. Not open to freshmen or sophomores. SHALEY.

PHYSICS

PROFESSOR RIPLEY, ASSISTANT PROFESSOR HILL

The courses are designed (1) for students in the courses in engineering, agriculture, and chemistry, as part of their required curriculum, and (2) for students in other courses who desire a general knowledge of the subject or who wish to prepare for the study of medicine, or for teaching or graduate work.

Requirements for a Major in Physics.—Forty-five term hours, including courses 141-3, or 144-6 or 147-9; 231-3; 527-9; 533; 634; 628-9; 618-9. Students who are preparing to teach physics in the secondary schools should complete as a minimum requirement courses 141-143, 234-6, and 527-9.

141 (142) (143). **FUNDAMENTAL PHYSICS.**—A non-mathematical course in physics designed for students who desire to secure a general knowledge of the subject and of its application to everyday life. The experimental and practical phases are stressed. Open only to students offering no entrance credit in physics. Lectures and recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. HILL.

144 (145) (146). **EXPERIMENTAL PHYSICS.**—Similar to 141, but more advanced. Open to students offering physics for entrance credit. Lectures and recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. RIPLEY.

144A (145A). **EXPERIMENTAL PHYSICS.**—A course arranged for agricultural students, covering the subjects of mechanics, heat, and electricity in two quarters. The practical phases of the

subject are stressed. Fall and winter. Fee, \$1.50 each term. RIPLEY.

*147 (148) (149). GENERAL PHYSICS.—A general course more mathematical than the courses described above. Not open to students who have taken course 141 or 144. Required of all engineering students. The application of physical laws to engineering problems and the solution of such problems. Mechanics, heat, electricity, and magnetism are emphasized. Lectures and recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. RIPLEY AND HILL.

*231, 232, 233. THEORETICAL PHYSICS.—An advanced course in General Physics dealing with the development of formulae and the application of formulae and laws to the solving of problems. Lectures and recitations three hours a week. Prerequisites: 141-143, or 144-146, or 147-149. RIPLEY.

*517, 518, 519. LABORATORY PHYSICS.—Exercises in the determination of moments of inertia, or center of mass, of Young's modulus, coefficient of viscosity, and of thermal expansion; of heats of fusion and vaporization, of capacity, of high and low potentials, photometric measurements, etc. Laboratory work three hours a week. Prerequisites: 141-143, or 144-146, or 147-149. Fee, \$1.50 each term. RIPLEY.

*527, 528, 529. LABORATORY PHYSICS. Same as preceding, but with six hours of laboratory work each week. Fee, \$3.00 each term. RIPLEY.

*533. HEAT. Thermometry, heats of combustion, specific heats of solids, liquids, and gases; vapor densities, and the laws of thermodynamics. Lectures and recitations two hours a week, laboratory work three hours a week. Spring. Prerequisite: 231-233. Fee, \$1.50. RIPLEY.

*604. LIGHT.—The modern theory of light with a consideration of the recent advances in this branch of physics. The theory of optical instruments, dispersion, diffraction, polarization, etc. Lectures and recitations two hours a week, laboratory work three hours a week. Fall. Prerequisite: 231-233. Fee, \$1.50. RIPLEY.

*628 (629). ELECTRICITY AND MAGNETISM.—An advanced course in the study of the fundamental units and quantities of electricity and magnetism with special emphasis on accurate methods of determination, and the derivation of the equations involved. Designed for students in electrical engineering, and for advanced students in physics and mathematics. Two recitations a week. Winter and spring. Prerequisite: 231-233. HILL.

*618 (619). ELECTRICAL MEASUREMENTS.—A laboratory course to follow or accompany 628-9. Laboratory work three hours a week. Winter and spring. Fee, \$1.50 each term. HILL.

PSYCHOLOGY AND PHILOSOPHY

PROFESSOR A. M. JORDAN, PROFESSOR J. R. JEWELL

The aim is primarily to acquaint students with the workings of the human mind, and secondarily to make clear and evident the mental factors involved in many of the transactions of everyday life. Students preparing for teaching law, business, medicine, politics, or the ministry, will find these courses of great benefit.

Requirements for a Major in Psychology and Philosophy.—forty-five credit hours in psychology and philosophy. These should include courses 241, 242, 243, 541, 542, 543, 545 and 546 in psychology, and 330, 331 and 340 in philosophy.

Students majoring in this department should elect courses in zoology and physiology.

Besides the courses appearing below, students are offered courses in Educational Psychology in the College of Education. Prerequisite: one year of university work is prerequisite to all courses in the department.

Note: 545, 546, 547 are given in alternate years with 541, 542, 543.

Psychology

241. GENERAL PSYCHOLOGY.—A general introduction to the study of mental life, investigating such subjects as the emotions, the instincts, sensations, general intelligence, the relations between mind and body, etc. This course is offered each term. No student who has taken Edu. Psych. 140 may be enrolled. JORDAN.

242. EXPERIMENTAL PSYCHOLOGY.—The experimental method and its technique, and the laws of psychology. Problems in the learning process which have direct bearing on sensory, motor, and perceptual learning, on memory, imagination, and reasoning. Normally follows 241. Lectures and laboratory four hours. Prerequisite: 241, or Ed. Psy. 140. Winter. JORDAN.

243. VOCATIONAL PSYCHOLOGY.—The history of the more important vocations and the manner in which selections have been made for them. The principal occupations and the peculiar needs to be met by those attempting to fill them, with due emphasis on the methods now employed in determining the fitness of individuals. Normally follows 242. Prerequisite: 241, or Ed. Psy. 140. Spring. JORDAN.

531. PSYCHOLOGY OF ADVERTISING.—The fundamental psychological principles underlying successful advertising. The processes of catching and holding attention, of interest, and of suggestion. Prerequisite: 241, or Ed. Psy. 140. (Not given in 1923-24.) Winter. JORDAN.

*348. PSYCHOLOGY OF RELIGION.—The growth of religious consciousness in the individual rather than in the race. A thorough

consideration of the various phases of conversion, both for themselves and as elements of a spontaneous religious development. Prerequisite: 241, or Ed. Psy. 140. (Not given in 1923-24.) Spring. JEWELL.

*541. SOCIAL PSYCHOLOGY.—Public opinion, custom, imitation, psychology of leadership, conflict, discussion, compromise, mob mind, social will, communication, and the crowd. An insight into present social problems by showing how consciousness has been developed in home, school, neighborhood, and society. Prerequisite: 241, or Ed. Psy. 140. Fall. JORDAN.

*542. INSTINCTS AND EMOTIONS.—A detailed survey of the various conceptions of instincts and emotions, the relation between the two, and their significance for everyday life. Normally follows 541. Prerequisite: 241 or Ed. Psy. 140. Winter. JORDAN.

*543. COMPARATIVE PSYCHOLOGY.—Mental life in animals, and the comparison between the human and animal methods of reaction. Emphasis upon the psychological implication of organic evolution. Normally follows 542. Prerequisite: 241 or Ed. Psy. 140. Spring. JORDAN.

*545. MENTAL AND PHYSICAL TESTS.—The origin and development of the various types of mental and physical tests. Two hours laboratory. Prerequisite: 241 or Ed. Psy. 140. (Not given in 1923-24.) Fall. JORDAN.

*546. INDIVIDUAL PSYCHOLOGY.—The innate and acquired differences apparent among individuals. The contribution of near ancestry, remote ancestry, maturity, sex, and environment to the facts of individual differences. Normally follows 345. Prerequisite: 241 or Ed. Psy. 140. (Not given in 1923-24.) Winter. JORDAN.

*547. PSYCHOLOGY OF THE ABNORMAL.—The psycho-physical conditions and mental phenomena of illusions, hallucinations, dreams, sleep, automatism, somnambulism, hypnotism, suggestion, dissociation, double and multiple personalities, and the insanities proper. Normally follows 546. Prerequisite: 241 or Ed. Psy. 140. (Not given in 1923-24.) Spring. JORDAN.

Philosophy

330. LOGIC.—The application of logic to the practical problems of everyday life, including inductive and deductive reasoning, with special reference to argumentation and debate. A foundation for further philosophical study. Prerequisite: Psychology 241, or Ed. Psy. 140. Spring. JEWELL.

331. ETHICS.—The growth of ethics in history, and better methods of estimating and controlling conduct. The moral problems that have confronted people from primitive times to the present, and comparisons between individual and group morality. Prerequisite: Psychology 241 or Ed. Psy. 140. Fall. JEWELL.

340. HISTORY OF PHILOSOPHY.—An introduction to philosophy.

through a study of typical world view: Greek, Roman, mediæval Christian, Renaissance, and modern. Prerequisite: Psychology 241 or Ed. Psy. 140. Winter. JEWELL.

341. INTRODUCTION TO PHILOSOPHY.—A survey course, in which the main fields of philosophy are mapped out, the permanent problems indicated, and the chief methods employed in their solution discussed. Prerequisite: Psychology 241 or Ed. Psy. 140. (Not given in 1923-24.) Spring. JEWELL.

ROMANCE LANGUAGES

PROFESSOR MARINONI, ASSOCIATE PROFESSOR KESSLER, ASSISTANT PROFESSOR PASSARELLI

The courses are intended to give students a fair knowledge of the French, Italian, and Spanish languages and to stimulate knowledge and appreciation of the literary attainments of the Latin people. In the higher courses emphasis is laid especially on the study of literature. In order to give students an opportunity to become familiar with the spoken idiom, several advanced courses are conducted in the language which forms the object of study.

Requirements for a Major in Romance Languages: fifty-four term hours to be chosen from the following courses, exact requirements to be arranged with the professor in charge—French 141 (142) (143), 531 (532) (533), 534 (535) (536), 537 (538) 539, and 631 (632) (633), 621 (622) (623); Spanish 141 (142) (143), 531 (532) (533), and Italian 521 (522) (523); or Spanish 141 (142) (143), and Italian 141 (142) (143), 531 (532) (533). Major students, upon completing the required work, are expected to have a fair speaking knowledge of at least one language. They must also take course 514 (515) (516) offered by the Department of Ancient Languages. Students preparing to teach either French or Spanish in the secondary schools should complete at least thirty-six credit hours in the language chosen, and in addition include a course in the teaching of modern languages. Such students are urged to do at least one year of practice teaching in the University High School.

French

141 (142) (143). ELEMENTARY FRENCH.—Grammar, reading, dictation, and composition. Pronunciation is carefully taught and oral drill insisted upon. KESSLER, PASSARELLI.

231 (232) (233). FRENCH LITERATURE OF THE EIGHTEENTH CENTURY.—Voltaire, Montesquieu, Rousseau, and Diderot. Lectures, recitations, and reports. Prerequisite: 531-533. KESSLER.

531 (532) (533). FRENCH PROSE AND POETRY.—Composition, sight reading, syntax, and conversation. Reading of representative works of modern French authors. Prerequisite: 141-143. KESSLER AND PASSARELLI.

*534 (535) (536). FRENCH LITERATURE OF THE SEVENTEENTH CENTURY.—A general view of the classic period. The most important literary productions are read and analyzed. Lectures and recitations in French, with a considerable amount of outside reading. Prerequisite: 531-533. MARINONI.

*537 (538) (539). FRENCH LITERATURE OF THE NINETEENTH CENTURY.—Lectures and recitations in French, with readings from the leading authors of the Romantic period. Prerequisite: 531-533. MARINONI.

*514 (515) (516). FRENCH DRAMA.—The evolution of the French drama from its origin to the present day. Lectures and recitations in French, with outside reading. The permission of the instructor must be secured. Prerequisite: 631-633. MARINONI.

621 (622) (623). ADVANCED FRENCH COMPOSITION. KESSLER.

*631 (632) (633). A SURVEY OF FRENCH LITERATURE.—Prerequisite: 531-533. KESSLER.

*637 (638) (639). BALZAC.—The life and works of Balzac. Lectures and recitations. Prerequisite: 531-533. MARINONI.

Italian

141 (142) (143). ELEMENTARY ITALIAN.—Grammar, composition, dictation, and conversation. PASSARELLI.

531 (532) (533). ADVANCED ITALIAN.—Syntax, composition, conversation, and reading of representative modern works. The second term will be devoted to the study of Dante's *Inferno*. Prerequisite: 141-143. PASSARELLI.

Spanish

141 (142) (143). ELEMENTARY SPANISH.—Grammar, composition, dictation, conversation, and reading of easy texts. MARINONI AND PASSARELLI.

531 (532) (533). ADVANCED SPANISH.—Syntax, composition, conversation, and reading of representative modern works. Class work is conducted largely in Spanish. Prerequisite: 141-143. MARINONI OR PASSARELLI.

*534 (535) (536). SPANISH LITERATURE.—Lectures, reports, and reading of standard works. Class work is conducted in Spanish. Prerequisite: 531-533. MARINONI.

537 (538) (539). COMPOSITION AND CONVERSATION. PASSARELLI.

ZOOLOGY

ACTING PROFESSOR DELLINGER, MRS. HOLCOMB

The courses are designed to teach the fundamental facts of zoological science, including the laws of development, heredity, variation, and correlation, and the economic importance of ani-

mals. They are essential to a thorough preparation for medicine, agriculture, geology, sociology, and psychology.

Requirements for a Major in Zoology: forty-five credit hours, to include courses 144 (145) (146), 241 (242) (243), 541 (542) (543), 552, 453, 631 and 633. Students preparing to study medicine are advised to select courses 144 (145) (146), 541 (542) (543), 552, 453, 241 (242) (243) and 633. Students who expect to teach zoology in secondary schools should take courses 144 (145) (146), 241 (242) (243), 533, 631, and 633.

132 (143). **ECONOMIC ZOOLOGY.**—The fundamental facts of zoology as applied to agriculture. Special attention devoted to development, heredity, variation, and parasitism. Open only to agricultural students. Winter and spring. Fee, \$2.50 each term. **DELLINGER.**

131. **NATURE STUDY—ANIMAL LIFE** (also listed as Entomology 131).—Given jointly with the department of Entomology. The part of the course dealing with fishes, amphibia, reptiles, and mammals is given by the department of Zoology; that dealing with birds and the more common insects is given by the department of Entomology. For students interested in the outdoors and those intending to teach. Lecture two hours, field trips 3-4 hours. Prerequisite: none. Spring. Fee, \$2.00. **DELLINGER, BAERG.**

144 (145) (146). **GENERAL ZOOLOGY.**—The fundamental facts of zoological science, including the laws of development, heredity, variation, and correlation. Field work on local fauna. Lectures and recitations two hours, laboratory and field work four hours. No prerequisite. Fee, \$2.50 each term. **DELLINGER.**

*541 (542) (543). **COMPARATIVE ANATOMY OF VERTEBRATES.**—An advanced study of the structures and classification of vertebrates. Lectures and recitations two hours, laboratory four hours. Prerequisite: 144-146. Fee, \$3.00 each term. **HOLCOMB.**

*552. **ANIMAL HISTOLOGY.**—Histological methods of technique. Human tissue is used when possible. Primarily for students preparing for medicine. Lectures and recitations three hours, laboratory four hours. Prerequisite: 144-145. Winter. Fee, \$3.00. **HOLCOMB.**

*453. **EMBRYOLOGY.**—Vertebrate embryology with regard to organogeny in the chick, pig, and man. Lectures and recitations three hours, laboratory four hours. Prerequisite. 144-146. Spring. Fee, \$3.00. **HOLCOMB, DELLINGER.**

241 (242) (243). **PHYSIOLOGY.**—The physiology and hygiene of the human body. A knowledge of elementary physiology required. Lectures and recitations two hours, laboratory four hours. Not open to freshmen. Fee, \$2.50 each term. **HOLCOMB.**

631. **THEORETICAL BIOLOGY.**—Variation, selection, evolution, heredity, and some of the broader and more general problems of biology. This course will be followed by genetics (Botany 341).

Prerequisite: 144-146, or open to seniors with special permission. Fall. Fee, \$2.00. DELLINGER.

633. HEREDITY AND EUGENICS.—Race improvement and the general principles of heredity as applied to man. Prerequisite: 631. Fee, \$2.00. Spring. DELLINGER.

311 (312) (313). ZOOLOGICAL SEMINAR.—Discussion of articles in zoological magazines. Prerequisite: 144-146, and permission of the instructor. DELLINGER.

COLLEGE OF EDUCATION

The purpose of the College of Education is to unite and correlate the forces of the University which contribute to the preparation of educational leaders in teaching and supervision, whether rural, elementary, secondary, or executive.

The curriculum is based upon the assumption that teachers should have, first of all, and fundamental to all other preparation, a broad and liberal education; secondly, that they should be masters of the special subject they expect to teach; and, thirdly, that this training should be supplemented by professional courses designed to give them a knowledge of the minds of the pupils to be taught and the problems to be met, with a thorough course in practice teaching under experienced critic teachers.

ADMISSION

For a statement of the entrance requirements and a description of the subjects accepted for entrance see previous pages.

COURSES OF STUDY

The College of Education offers a two-year course leading to the elementary teacher's certificate; a four-year course leading to the degree of *Bachelor of Science in Education* (B. S. E.); and a graduate course leading to the degree of *Master of Science* (M. S.).

REQUIREMENTS FOR DEGREE

BACHELOR OF SCIENCE IN EDUCATION

The candidate must meet the entrance, residence, and registration requirements, and must complete satisfactorily at least two hundred one term hours in approved courses, or one hundred ninety-eight term hours in the teacher-training course in Vocational Home Economics, with the following restrictions:

1. Prescribed courses as follows: English 131 (132) (133), nine hours; education and psychology, thirty-six hours, including Psychology 241, Education 111 (112) (113), 241, 243, 335, and 350; military art, six hours (for men), or physical education, six hours (for women).

2. Elective courses to be chosen from the following groups with the restrictions noted below:

Group 1. English, French, German, Greek, Italian, Latin, and Spanish.

Group 2. Astronomy, botany, chemistry, geology, mathematics, physics, and zoology.

Group 3. Economics, education, history, political science, philosophy, sociology, and home economics.

Group 4. Agricultural subjects, Bible, engineering subjects, fine arts, law, medicine, military art, and physical education.

a. The candidate may elect not more than sixty hours from any one subject, and not more than one hundred twenty hours from any one group, except by special permission of the dean of the college.

b. The candidate must select, not earlier than the beginning of his sophomore year and not later than the beginning of his junior year, one major subject, in which he must complete at least forty-five credit hours, and two minor subjects, in which he must complete at least twenty-seven and eighteen credit hours, respectively, subject to the approval of the head of the department and the dean of the college. The major subject in every case shall be chosen from the group in which the student finds the subject matter he is preparing to teach. A description of the major requirements of each department will be found under the departmental statements.

c. The candidate preparing to teach subject matter found in groups 1, 2 and 3, respectively, must elect not less than twenty-seven hours from Group 1 and fifty-four hours from Groups 2 and 3 combined, with not less than eighteen hours from either Group 2 or 3.

d. Students who find their major or minor in Group 4 should in every case consult with the dean concerning their courses of study. The College of Education gives full credit for work in music, i. e., one hour of credit is given in each term for courses 111 to 119, inclusive. However, one year in piano, violin, or voice must be completed in college before the student may enroll for credit in that subject. This does not apply to pipe organ, which has piano as a prerequisite. No credit is allowed unless the student takes at least two lessons a week.

e. The candidate should conform as closely as possible to the following schedule in the distribution of his work:

Freshman Year

	Credit Hours
English 131, 132, 133.....	3
Education 111, 112, 113	1
Physical Education or Military Art 111, 112, 113.....	1

	Credit Hours
Foreign Language, Science or Mathematics.....	4
Electives	7
	<hr/> 16

Sophomore Year

Psychology 241, Education 241 and 243.....	4
Physical Education or Military Art 211, 212, 213	1
*Electives	12
	<hr/> 17

Junior Year

Education 335..	3
Special Methods Course	2 to 4
*Electives	10 to 12
	<hr/> 17

Senior Year

Education 350—5 hours each for two terms	
Electives	
	<hr/> 17

MASTER OF SCIENCE

The degree of *Master of Science* is granted for graduate work based on a four-year undergraduate course and a degree of either *Bachelor of Arts* or *Bachelor of Science in Education* from this institution or any other institution of equal standing. Before a student may become a candidate for the degree, however, his petition for admission to graduate standing must receive the approval of the Senate Committee on Graduate Study and the dean of the college.

1. The minimum time in which a candidate may be permitted to complete the work for the degree is one academic year. In individual cases, when the committee deems it necessary, more than one year may be required.

2. The candidate is required to complete one major subject and not more than two minor subjects in closely related courses, except as noted below. The major subject, occupying with the thesis twenty-four credit hours, must be one in which the candidate has received credit in his undergraduate course for at least thirty-six credit hours. The minor subjects, occupying together eighteen credit hours, must be ones in which he has received credit in his undergraduate course for at least eighteen credit hours each.

*Note—These electives must include the major and minor subjects, chosen not later than the beginning of the Junior year.

Note II.—If, during the Freshman year, a foreign language other than one submitted for entrance credit, be elected, it must be continued throughout two consecutive years.

Note III.—In certain cases practice teaching (Education 350) may be begun during the last term of the Junior year.

The admission to candidacy for the Master's degree in the case of men and women of maturity who have clearly demonstrated distinct ability in a special field, and whose undergraduate credits would not meet the numerical requirements of the preceding rule, together with, in every case, the choice of a candidate's major and minors, is subject to the approval of the committee, the dean of the college, and the major professor.

3. Teachers of Smith-Hughes work holding a Bachelor's degrees from the University of Arkansas, or from another institution of similar grade, and having met the other Federal requirements for Smith-Hughes teaching, will be eligible for admission to candidacy for the degree of Master of Science.

4. Forty-two of the forty-eight hours required of the candidate must be regular class-room work. Candidates who are graduates of this University may pursue one-half of the required work by correspondence, provided their undergraduate records are satisfactory to the committee and to the dean of the college.

5. A student may be admitted to graduate standing, without becoming a candidate for a degree, by permission of the committee and the dean of the college.

REQUIREMENTS FOR A TEACHER'S CERTIFICATE

The teacher's certificate is granted in accordance with the law of the State of Arkansas, which reads:

"That the diploma from the teachers' training department of the University of Arkansas shall be equivalent to a teacher's professional license, which shall entitle the holder to teach in any public school in the State of Arkansas for a period of six years from and after the date of issue. At the expiration of said period such diploma may be converted into a life certificate, provided that the character of the work done by the holder thereof, and his or her moral character, shall meet with the approval of the Superintendent of Public Instruction of the State of Arkansas."

The only degree given by the University of Arkansas which in itself entitles the holder to teach in the schools of this state, or of other states requiring professional preparation of its teachers, is the degree of Bachelor of Science in Education. Graduates holding other degrees are required to pass examinations for teachers' certificates, unless they also have certificates granted by the College of Education for not less than thirty-six hours of professional work, which must include the requisite courses.

A student who intends to take a degree in another college of the University should register in that college. If, in addition, he expects to take the teacher's certificate in the College of Edu-

cation, he must also be registered in the College of Education during his terms in which he is doing his professional courses.

Students in other colleges, who expect to receive the teacher's certificate at some time in the college course, are advised to consult with the dean of the College of Education not later than the end of the freshman year.

Course for Secondary Teachers

Students preparing to teach in high school will spend at least two years, preferably three, taking academic courses in the subjects they wish later to teach, and take a special methods course prior to the term in which they begin their practice teaching, which will be done not earlier than the junior year. It is hardly possible to place a high school teacher who lacks a degree from a standard college or university.

Course for Elementary Teachers

Students wishing to teach in the elementary grades must be registered in the College of Education during both the freshman and sophomore years. On the completion of the elementary teacher's course they will be given an Elementary Teacher's License, good for the same length of time as the teacher's license given for the completion of the four-year college course, but entitling them to teach in the grades only. This course can be completed at the end of the sophomore year. This course is so arranged that students may return and secure their Bachelor's degree after the completion of the junior and senior years of college work.

Candidates for the Elementary Teacher's License will conform as closely as possible to the following schedule in the distribution of their work:

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131, 132, 133.....	3	3	3
Psychology 140.....	4	--	--
Education 141 (Teaching Process).....	--	4	--
Education 142 (Prin. Elem. Educ.).....	--	--	4
Primary Methods	3	3	3 or 2
Public School Music or Normal Art.....	2	2	2
Botany (Nature Study)	--	--	4 or 3
Electives	3	3	.
Physical Education	1	1	1
	<hr/> 16	<hr/> 16	<hr/> 16

Sophomore Year

Education 250	5	5	--
Elem. Tests and Measurements 230.....	--	--	3
Public School Music or Normal Art.....	2	2	2
Electives	9	9	11
Physical Education	1	1	1
	<hr/> 17	<hr/> 17	<hr/> 17

Practice Teaching

Opportunity for practice teaching in all the usual elementary and secondary subjects, as well as agriculture, home economics, manual training, and physical training, is provided in the University Training High School. General Psychology (241), Teaching Process (141 or 241), either Principles of Elementary Education (142) or Principles of Secondary Education (243), and a special methods course are prerequisite to practice teaching. Students should determine as early as possible subjects which they desire to teach and should prepare themselves thoroughly in those fields. No student shall be assigned to practice teaching unless he has made special preparation in the work for which he is applying.

All assignments to classes are made by the Director of the Training School. Before registering for teaching, students must consult with him and submit, in addition to a recommendation from the department in which special preparation has been made, a statement from the Registrar of the courses completed in Education and in the academic subject which the student proposes to teach. Special blanks for this purpose may be secured at the office of the Director of Training.

Recommendation Bureau

The College of Education maintains a Recommendation Bureau, the purpose of which is to place properly in teaching positions those of its students and graduates whose teaching ability is satisfactory to the faculty of this college and whose major professors concur in this recommendation. Since such recommendations are worthless unless based on personal knowledge, the Bureau manifestly cannot place its services at the disposal of teachers concerning whose teaching ability the members of the staff of critic teachers know nothing. It is still possible to find positions for primary and grade teachers who possess a certificate given at the close of two years of college work. It is not possible, however, to place high school teachers in good positions unless they have earned a college degree. Every year there are many more requests for teachers than there are graduates available. Graduates need not leave the state to secure important positions at good salaries. Students looking forward to teaching in other states should, however, confer with the dean as to the requirements for teaching in such states. In general the requirement is a minimum of twenty-seven term hours of professional work following a course in general psychology.

VOCATIONAL TEACHER TRAINING

The University of Arkansas has been designated by the Federal government as the institution in which all the teacher training in the State of Arkansas under the Smith-Hughes Act shall be done. A department of Vocational Teacher Training has

been established in the College of Education; there have been added to the faculty, also, professors of agricultural education, a professor of education in the trades and industries, a professor of home economics education, and four critic teachers to supervise the practice teaching of students. Other professionally trained critic teachers will be added to the faculty as soon as any considerable body of students is enrolled in the later years of the courses involved.

It is the intention of the Federal Board, as well as of the Arkansas Board which will have charge of the Smith-Hughes work, that teachers who prepare themselves for the work by graduation from any one of the courses given below shall be employed for an entire year, rather than for a few months only, and shall receive liberal salaries. A certain amount of practical experience will be required in addition to college graduation. The courses given below in detail are tentative only and probably will be slightly altered from time to time as experience makes necessary.

It is worthy of note that the vocational training courses planned by the University of Arkansas comprised the first state scheme to be approved by the Federal Board.

Candidates for admission to these courses must present fifteen units of high school work or the equivalent. A student desiring to teach Agriculture shall for the first two years take the general agricultural course. At the beginning of the third year, he shall register in both the College of Agriculture and the College of Education. He may then take his degree in the College of Agriculture along with the teacher's certificate in the College of Education, or he may take his degree in the College of Education with agricultural education as a major. Not later than the beginning of the junior year, and earlier if possible, students expecting to teach agriculture should consult with the Professor of Agricultural Education with regard to the arrangement and selection of courses. The teacher training in vocational agriculture may be taken only by persons who have had at least two years of vocational agricultural experience, or who are acquiring such experience as a part of their training. Each one of these courses covers four college years and is especially prepared for teachers of these respective vocational subjects. Each course consists of two hundred four term hours of work, a certain part of which must be in scientific project work in the vocation involved, and twenty-nine or thirty term hours in professional subjects, including practice teaching.

The Following Professional Courses are an Unvarying Requirements

Psychology 246—Psychology of Teaching....	4 term hours
Education 241—The Teaching Process.....	4 term hours
Education 350—Practice Teaching.....	10 term hours
Education 243—Principles of Secondary Education.....	4 term hours
Education 332, or Home Economics 341.....	3 or 4 term hours

Vocational Home Economics Teacher's Training Course

(For the first two years see College of Agriculture.)

The teacher's certificate, in addition to the degree of Bachelor of Science in Home Economics, is granted to all candidates for a degree who complete the following courses. This course is offered by agreement between the College of Education and the College of Agriculture and is designed especially for the training of teachers of Vocational Home Economics in Smith-Hughes Vocational Schools.

	Credit Hours
Home Economics 331, 332 (Food Economics).....	6
Home Economics 334, 335, 336 (Dietetics)	9
Education 111, 112, 113 (Principles of Education).....	3
Education 241 (Teaching Process)	4
Education 335 (Tests and Measurements).....	3
Education 243 (Principles of Secondary Education).....	4
Education 341 (Methods of Teaching Home Economics).....	4
Education 350 (Practice Teaching)	10
Home Economics 361 (Household Management)	6
Home Economics 441 (House Planning)	4
Home Economics 442 (House Furnishing).....	4
Home Economics 443 (Position of Women).....	4
Home Economics 234, 235, 236 (Textiles and Clothing Economics)	9
Home Economics 221 (Study of Costume).....	2
Agricultural Engineering 322 (Farm Conveniences).....	2
Bacteriology 342	4
Home Economics 423 (Household Problems)	2
Economics or Sociology	4
Electives	12
Total	96

Four-Year Course in Vocational Agricultural Education

During the first two years of this course students will take the regular general course in Agriculture.

Junior Year

English 331, 332, 333.....	3	3	3
Education 241 (Teaching Process).....	4	..	..
Education 243 (Principles of Secondary Education) .....	..	4	..
Psychology of Teaching.....	..	..	4

Senior Year

Vocational Agricultural Education 332.....	..	..	3
Special Methods and Practice Teaching.....	..	..	10

Electives in the junior and senior years to include not less than eight of the following subjects:

- Agricultural Economics (331-332-531-521).
- Agricultural Engineering (322, 442, 331).
- Animal Husbandry (331, 351, 352, 450).
- Agronomy (331-332-333).
- Bacteriology (351).
- Economic Entomology (252).

Farm Management (Agr. Econ. 431, 432).

Horticulture (331, 437).

Veterinary Science (331, 332).

Plant Pathology (352, 442).

Soil Fertility (Agr. 345, 346).

Additional electives may be chosen in any department in the College of Agriculture, or in Political Economy, Sociology, History, English, Languages, or Sciences.

COURSES IN PHYSICAL EDUCATION

Complete four-year courses in physical education, for the preparation of instructors in this line of work, are in course of preparation. In the meantime the three instructors in the department are offering courses in the theory of coaching and in the teaching of physical education. Students who are prepared for it may do practice teaching in one or another of the various lines of physical education under the supervision of the University coaches.

SYMBOLS

The courses are numbered in accordance with the system previously described.

CREDIT HOURS

The number of credit hours allowed in each course is identical with the number of hours of lecture or recitation hours a week through the term; in laboratory, shop, or field work two or three hours are considered as equivalent to one hour of lecture or recitation.

Requirements for a Major in Education: Forty-eight credit hours, including General Psychology, Principles of Education, Teaching Process, Principles of Secondary Education, Secondary Tests and Measurements, Educational Psychology, and Practice Teaching.

Specialization Requirements: Prospective teachers should decide as early as possible the field in which they wish to teach, and prepare themselves accordingly. In general, students will not be recommended for teaching positions in a particular field unless they have pursued the following courses or their equivalents in that field.

1. Junior and Senior High School Teachers—Requirements must be satisfied for a major in the department or departments in which the student expects to teach. It frequently proves a decided advantage to a student to take the courses suggested for those expecting to teach, in two different departments. These should also include the special methods courses. Courses in Education to be pursued: 243, 334, 536. Courses in Psychology: 142, 245.

2. Elementary School Principals—Courses in Education to be pursued: 142, 134, 330, 230, 343, 344, 345, 346, 526. Courses in Psychology: 248, 239, 240.
3. High School Principals—Courses in Education to be pursued: 134, 330, 234, 335, 345, 536, 537. Courses in Psychology: 248, 245.
4. Superintendents and Supervisors—Courses in Education to be pursued: 134, 330, 342, 335, 344, 345, 346, 526, 527, 536. Courses in Psychology: 248, 239, 240.
5. College Teachers of Education—Courses in Education to be pursued: 134, 330, 334, 342, 230, 235, 344, 345, 346, 526, 536, 580. Courses in Psychology: 248, 239, 240.

DEPARTMENTAL STATEMENTS

EDUCATIONAL PSYCHOLOGY

PROFESSOR A. M. JORDAN, PROFESSOR JEWELL, PROFESSOR HOTZ

Besides the courses in Psychology appearing below, students are offered other courses in Psychology in the College of Arts and Sciences.

140. **ELEMENTARY EDUCATIONAL PSYCHOLOGY.**—A course in general psychology designed for those preparing for the two-years teacher's certificate. Open to freshmen. Fall. JORDAN.

248. **ADVANCED EDUCATIONAL PSYCHOLOGY.**—A consideration of the following topics of vital importance to the teacher: sources of interest, instincts, habits, moral training, memory, thinking, attention, imagination, and "transfer of training." Prerequisite: Psychology 140 or 241. (Not given in 1923-24.) Winter. JORDAN.

*240. **GENETIC PSYCHOLOGY.** An intensive study of the development of the mind from childhood to adolescence, with a consideration of the arguments for and against the recapitulation theory. A careful interpretation of both heredity and environmental influences in their bearing upon education in the home and in the school. Prerequisite: Psychology 140 or 241. Winter. JEWELL.

*239. **PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS.**—The psychological processes involved in the learning of reading, writing, arithmetic, history, and geography. The laws of habit formation applied in arranging the material. Prerequisite: Psychology 140 or 241. Winter. JORDAN.

246. **PSYCHOLOGY OF TEACHING.**—Especially for students in the various Smith-Hughes courses, dealing with the topics usually studied in General Psychology, but always with reference to the learning process. Very practical, and the applications of the laws of psychology to teaching will be stressed. Fall. JEWELL.

*245. **PSYCHOLOGY OF ADOLESCENCE.**—The important physical, mental, and moral changes natural to adolescence, of special interest to all who have to deal with boys and girls of high school age. Attention given to laying the foundation for the pedagogy of secondary instruction. Prerequisite: Psychology 140 or 241. Spring. JEWELL.

*335. **PSYCHOLOGY OF HIGH SCHOOL SUBJECTS.**—A psychological analysis of high school subjects with the object of determining the mental processes involved in studying them; review of experimental studies; criticism of methods of instruction. Prerequisites: Psychology 140 or 241, and Education 243. (Not given in 1923-24.) Winter. HOTZ.

METHODS AND MANAGEMENT

PROFESSOR CADE, PROFESSOR MARINONI, PROFESSOR PALMER, PROFESSOR REINOEHL, ASSOCIATE PROFESSOR ENSIGN, ASSISTANT PROFESSOR MARKHAM, MISS BLAIR, MISS BUNKER, MISS NELSON, MRS. PARMELEE, MISS WILSON

130. **COMMUNITY LIFE AND HISTORY FOR THE PRIMARY GRADES.**—Selection and organization of material, and methods of presentation. Lectures, recitation, reference reading, and observation. Fall. WILSON.

121. **NUMBER AND SCIENCE FOR PRIMARY GRADES.**—Organization of subject matter, and methods of presentation. Recitation, reference reading, and observation. Spring. WILSON.

124 (125) (126). **PUBLIC SCHOOL MUSIC.**—Preparatory to teaching music in the public schools. Two meetings each week are given to sight reading and one to a study of the methods of teaching the subject to children. PARMELEE.

141. **TEACHING PROCESS.**—An introduction to the scientific principles underlying teaching. Aims of the schools, chief factors in the educative process, best methods of study, types of lessons, skillful questioning, lesson plans, health education, problems in organization and control, newer phases of instruction. Textbook, lectures, and recitations. Offered every term. REINOEHL.

241. **TEACHING PROCESS.**—Practically the same course as 141, but adapted to secondary instead of elementary teachers. Offered every term. REINOEHL.

132. **ENGLISH FOR PRIMARY GRADES.**—The teaching of literature, reading, composition, spelling, and penmanship. Lectures, recitation, reading, and observation. Winter. WILSON.

235. **THE TEACHING OF ENGLISH.**—The aims, methods, and results of teaching English in high school. Written English emphasized. Prerequisites: Education 241, 243, Psychology 241, and English 542, 543. Fall. BUNKER.

236. **THE TEACHING OF HISTORY.**—The materials of history

and the practical problems of teaching the subject in secondary schools. Prerequisites: Education 241, 243, Psychology 241, and History 131-133. Winter. BUNKER.

237. THE TEACHING OF MATHEMATICS.—Algebra and Geometry; educational value; position in course; methods of teaching (both American and foreign); order and importance of topics; text-books and literature. Lectures, discussions, and reports. Prerequisites: Education 241, 243, Psychology 241, and Mathematics 155-157. Spring. BLAIR.

223. THE TEACHING OF FRENCH.—The problems that confront the teacher of French in secondary schools; pronunciation; choice and presentation of grammatical material; oral practice; composition; choice of tests; methods of presentation. Prerequisites: Education 241, 243, Psychology 241, and French 553. Spring. MARINONI.

239. TEACHER'S COURSE IN SECONDARY SCIENCE.—History of the sciences in secondary schools, their purpose and aims. Emphasis is placed on the psychological method of presenting material in the various science courses. The project method of teaching the sciences will be included. Prerequisites: At least one year, preferably two, of college science, and Education 241, 243, Psychology 241. Required of students preparing to teach science. Winter. MARKHAM.

*338. VISUAL EDUCATION.—A demonstration of the use, teaching, value, and technique of visual material. Frequent class demonstrations will be made with both high school and elementary classes. Instruction in projection machine, and the physics of projection will be studied with the physics of vision. The use of maps, charts, diagrams and the making of this material will be emphasized. Spring. MARKHAM.

350. PRACTICE TEACHING.—Daily teaching of one period in the Training School in practical application of the principles of instruction. Teachers' meeting one hour a week. (In Home Economics this course is called Education 350-351, and has Home Economics 341 as a prerequisite.) Prerequisites: Psychology 241, and Education 241, 243. BLAIR, BUNKER, CADE, CAVE, ENSIGN, MARINONI, MARKHAM, PALMER, AND WILSON.

341. HOME ECONOMICS METHODS.—Methods for teaching foods and clothing. Discussion of the development of the home economics movement, courses of study, current text-books, the method of demonstration. Prerequisites: Home Economics 331-333, and 234-236; Education 241, 243, and Psychology 240. Spring. PALMER.

*343. PROJECT METHOD OF TEACHING.—Pedagogical principles underlying this method; the different types of projects; concrete material that has been worked out in the class room; the fields in which the project may originate; the significance of the project in large units of study; outcomes of projects checked against

subject matter outlined in the course of study. Prerequisites: 241, 243, Psychology 241. Winter. CADE.

*527. *STATISTICAL METHODS IN EDUCATION*.—A practical study of the scientific methods of compiling, organizing, and interpreting all kinds of educational data. The graphic representation of data emphasized with special attention given to the actual needs of teachers and superintendents taking the course. Spring. REINOEHL.

PHYSICAL EDUCATION

PROFESSOR SCHMIDT, ASSISTANT PROFESSOR SHALEY,
MR. GROVE

These courses have not been prepared for the general student body, but for players and for those whose business or pleasure it may be to instruct players or teams, the idea being to train men to fill the demand for athletic coaches in the institutions of learning throughout the state. The work will consist partly of lectures and partly of demonstrations. The courses are not open to freshmen.

221. *THEORY OF FOOTBALL*.—Standard systems of offensive and defensive methods; approved play for each position of line, ends, and backfield; generalship and strategy; the relative value of kicking, passing, and running; regular and open formation; signal systems; conditioning and training of team; equipment; a study of the rules from the standpoint of coaching, playing, and officiating. Frequent and regular demonstrations on the field of blocking, tackling, passing, punting, place and drop kicking, drills for linemen and backs, tackling dummy and charging sled, fundamentals emphasized. Fall. SCHMIDT.

232. *THEORY OF BASKETBALL*.—To aid and benefit those desiring to coach basketball. Emphasis will be given to team play, characteristics of the different positions, passing, catching, and dribbling the ball, goal shooting, pivoting and dodging, offensive and defensive systems, consideration of the different styles of play used by leading coaches, conditioning a team, study of the rules. The principles and ideas brought out in the theory of class will be demonstrated and practiced. Winter. SCHMIDT.

233. *THEORY OF FIELD AND TRACK*.—Form and method of starting, finishing, sprinting, distance-running, hurdling, high and broad jumping, pole vaulting, weight events, shot put, discus, hammer, and throwing the javelin, relay racing; a suggestive course of training and conditioning for each event. Lectures on diet, massage; rules of competitions; suggestions on the conduct and management of athletic meets. Each event discussed in theory class will be practiced on the track and field. Winter. GROVE.

234. *THEORY OF BASEBALL*.—The theory and fundamentals of the national game as a science as well as an art. Special atten-

tion to battery work, pitching, strategy, delivery, the proper method of filling each position; team play, coaching methods, study of the rules. Demonstration and practice of the principles discussed in theory class. Winter. SCHMIDT.

527. TEACHING OF PHYSICAL EDUCATION.—The principles of physical education as applied to the teaching of games, folk dances, marching, and the coaching of basketball and tennis. Not open to freshman girls. Winter. SHALEY.

PRINCIPLES OF EDUCATION

PROFESSOR JEWELL, PROFESSOR HOTZ, PROFESSOR REINOEHL,
ASSOCIATE PROFESSOR ENSIGN

111 (112) (113). PRINCIPLES OF EDUCATION.—An introduction into the main problems of public education in a democracy. First, a study of the progress made in the scientific study of education, including those skills, knowledges, tastes, and ideals demanded in modern life, and the instinctive equipment of the child which may be used to acquire these ends. Second, the laws of learning and thinking. Third, a brief historical tracing of the genesis of educational theory and practice. JEWELL.

142. PRINCIPLES OF ELEMENTARY EDUCATION.—Principles of education as they affect the work of the elementary school; course of study; selection and organization of subject matter; educational method, including problems and projects in teaching; adjusting work to meet individual differences; grading and promotion of pupils. Offered every term. HOTZ.

243. PRINCIPLES OF SECONDARY EDUCATION.—Aims and functions of secondary education in a democracy; the high school pupil; individual differences; the curriculum and the selection of subject matter; methods of teaching; cardinal principles of organization and management in so far as they affect the work of the teacher. Offered every term. HOTZ.

*330. PHILOSOPHY OF EDUCATION.—Education considered from the standpoint of: (1) biology, (2) neurology, (3) psychology, (4) anthropology, and (5) sociology. Instinct, heredity, habit, culture-epochs, individual differences, imitation, suggestion, training and memory, imagination, emotions, will, senses, motor activities and moral nature, formal discipline, educational values, and social education. Prerequisites: Psychology 140 or 241, and Education 141 or 241. (Not offered in 1923-24.) JEWELL.

*342. COMPARATIVE SCHOOL SYSTEMS.—The outstanding features of the school systems of France, Germany, England, Denmark, Switzerland, and the United States. Planned for those interested in the working out of the curriculum and a better supervision of the schools. The changes in education that the Great War has brought to England and Germany, and its probable effect on the United States, are largely emphasized. Text-book, lectures, and references. (Not offered in 1923-24.) JEWELL.

*411. SEMINAR IN AGRICULTURAL EDUCATION.—A review of current literature bearing on Vocational Education; round table discussions on special topics relating to the work in Arkansas and other states. For seniors and graduate students majoring in vocational work. Offered any term. ENSIGN.

*526. CURRICULUM PROBLEMS.—A study of both the supervisory and the administrative aspects of curriculum making. It deals with the selection of aims, methods, teaching materials, and standards of achievement in school subjects. Vitalization of instruction by extending supervision through the course of study. Special attention given to current work in the application of scientific methods to the development and organization of content-materials. References, lectures, and discussions. Prerequisite: 241 or 243. Winter. REINOEHL.

*334. CONDUCT OF THE RECITATION IN THE HIGH SCHOOL.—(a) Directed Study—How we think; the training of thought; technique of supervised study. (b) The Recitation Period—Types and methods of recitation; types of questions and answers. The class is in constant touch with the demonstration school and frequently observes classes. Prerequisite: 243. Winter. HOTZ.

*339. VOCATIONAL GUIDANCE—Methods of entering employment and factors influencing choice; waste involved and means of remedying. A study of the leading vocations and a critical analysis of individual aptitudes. Methods in educational guidance. Winter. ENSIGN.

*332. VOCATIONAL AGRICULTURAL EDUCATION.—The evolution of agricultural education since prehistoric times. Comparative studies of agricultural education in the United States and other countries, with special reference to most recent developments. Prerequisites: 241, 243; Psychology 246. Spring. ENSIGN.

230. ELEMENTARY TESTS AND MEASUREMENTS.—Standard tests and scales for the measuring of educational attainments in the elementary schools. Practice in applying tests in oral and silent reading, penmanship, arithmetic, spelling, etc. Prerequisite: 141 and 142. Spring. CADE.

*335. TESTS AND MEASUREMENTS FOR SECONDARY SCHOOLS.—Desirable outcomes of the different high school subjects; a critical survey of available high school tests and scales; the technique of giving, scoring, tabulating, presenting, and interpreting the results; the use of standard tests in experimentation, classification, and diagnosis. Each member of the class will be given actual practice in the application of some standard test. Prerequisites: Psychology 241, and Education 243. Fall. HOTZ.

SCHOOL ADMINISTRATION

PROFESSORS CADE, HOTZ, JEWELL, REINOEHL

134. SCHOOL HYGIENE.—Problems of school hygiene, including heating, lighting, ventilating, school diseases, medical inspection.

tion of schools, and hygiene of various school activities. Lectures, and references. (Not offered in 1923-24.) JEWELL.

*535. THE JUNIOR HIGH SCHOOL.—Designed to give high school teachers and principals a knowledge of the junior high school and its organization. Topics: Need for the junior high school; curricula and programs of study; discipline and social organization; selection of teachers; homogeneous grouping; school tests and intelligence tests; bases for admission and promotion. Prerequisite: 243. Spring. Hotz.

*536. HIGH SCHOOL ADMINISTRATION.—Purpose and legal status of the high school; relation to elementary and to higher education; proposed plans for reorganization; the high school principal and his functions; selection, supervision, and promotion of teachers; the high school population; curricula and courses of study. Prerequisite: 243. Fall. Hotz.

*537. PROBLEMS IN SECONDARY EDUCATION.—For prospective high school principals and supervisors, and closely related to 536; classification and homogeneous grouping of pupils; making of daily schedules; measuring results of teaching, and teacher rating; records and reports; methods of securing publicity. Prerequisite: 536 and 243. Winter. Hotz.

*638. SEMINAR IN SECONDARY EDUCATION.—A research course in special problems in secondary education. Administration, financial support, etc. Prerequisite: 536 and 243. (Offered any term.) Hotz.

*344. STATE AND COUNTY SCHOOL ADMINISTRATION.—The educational organization of the nation, state, county, district; rural school problems; buildings and equipment; school records, reports; text-books and the course of study; school officers; the teaching staff; the elementary school pupil; budgets and financial problems; inspection and standardization; measuring, interpreting, presenting results to the public. Prerequisite: 142, or 243, or in the case of teachers of wide experience, the permission of the instructor. References, discussions, reports. Fall. REINOEHL.

*345. VILLAGE AND CITY SCHOOL ADMINISTRATION.—Evolution of city districts; the school plant, its care and equipment; administrative organizations; boards of education; the city superintendent; ward and village principals; teachers; grade pupils; classification and promotion; curriculum problems; student activities, health administration; school accounting, budgets, reports; selling the schools to the public. Prerequisite: 142 or 243, or, in case of teachers of wide experience, the permission of the instructor. References, discussions, reports. Winter. REINOEHL.

*346. SCHOOL SUPERVISION.—The supervisory aspects of school administration. Development of supervision; present status; methods and plans; class schedules; organizing teaching mate-

rials; criticism of instruction; supervised study; supervisory devices; economy and effectiveness in teaching; measuring results. Prerequisite: 142 or 243, or, in case of teachers of wide experience, the permission of the instructor. References, discussions, reports. Spring. REINOEHL.

*580. EDUCATIONAL PROBLEMS.—A research course pertaining to problems of instruction, administration, and supervision. Open to seniors and graduate students. Research problems may be carried over two or more terms and a maximum of eight term hours credit may be made in this course. Prerequisite: Education 350. CADE.

COLLEGE OF ENGINEERING

The purpose of the courses is to prepare young men for the profession of engineering. The value of the training acquired in a university course is recognized by railway officials, manufacturers, municipal, state, and federal authorities. The demand in industrial and engineering fields throughout the country is for college graduates.

The graduates of the College of Engineering of the University of Arkansas are scattered over the entire world, occupying positions of trust in foreign lands, in the service of the United States government, in large manufactories, and in state and municipal service, or are building for themselves reputations as professional engineers.

ADMISSION

For a detailed statement of the entrance requirements and a description of the subjects accepted for entrance, see previous pages.

COURSES OF STUDY

The College of Engineering offers through its various departments four year courses leading to the degrees of *Bachelor of Chemical Engineering* (B. Ch. E.), *Bachelor of Civil Engineering* (B. C. E.), *Bachelor of Civil Engineering in Highways* (B. C. E. in Highways), *Bachelor of Electrical Engineering* (B. E. E.), and *Bachelor of Mechanical Engineering* (B. M. E.); graduate and professional courses leading to the degrees of *Chemical Engineer* (Ch. E.), *Civil Engineer* (C. E.), *Electrical Engineer* (E. E.), and *Mechanical Engineer* (M. E.); and special two-year courses leading to a certificate.

Candidates for the bachelor's degree in engineering must meet the entrance, residence, and registration requirements, and must complete satisfactorily two hundred sixteen term hours as outlined in the following courses of study.

Elective courses will not be given unless as many as five students, who have completed the required undergraduate course, register for them.

All senior engineering students, accompanied by instructors, are required, during the spring term, to make a visit of inspection to power plants, manufacturing plants, and noted engineering works. All engineering students will be required to spend one week in actual field practice in surveying during the junior year.

FRESHMAN AND SOPHOMORE YEARS FOR ALL ENGINEERING STUDENTS

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
Physics 147 (148) (149).....	4	4	4
English 131 (132) (133).....	3	3	3
Mathematics 156 .....	..	5	..
Mathematics 157	5	..	..
Mathematics 128 .....	..	..	2
Mathematics 139 .....	..	..	3
Drawing 121 (122) (123).....	2	2	2
Mechanic Arts 121 (122) (123).....	2	2	2
Military Art 111 (112) (113).....	1	1	1
†Mathematics 111 (112) (113).....	1	1	1
	18	18	18

Sophomore Year

Mathematics (251) (252) (253).....	5	5	5
Chemistry (257) (258) (259).....	5	5	5
Drawing (221)(222)(223).....	2	2	2
*Civil Engineering (231) and (225).....	5	5	5
*Heat Power Engineering (231).....	3	3	3
*Experimental Engineering 225	2	2	2
*Electrical Engineering (231) and (221).....	5	5	5
Military Art (211) (212) (213).....	1	1	1
	18	18	18

REQUIREMENTS FOR DEGREES

CHEMICAL ENGINEERING

Junior Year

Chemistry 254 (255) (259).....	5	5	5
Chemistry 434, 435 (436).....	3	3	3
Heat Power Engineering 341 (342) (343).....	4	4	4
*Elective	6	6	6
	18	18	18

†Required of those students who do not present Solid Geometry for entrance.

*These courses are repeated each term and a student is required to take one term of each.

Senior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
Chemistry 354 (355) 359.	5	5	5
Chemistry 255			5
Electrical Engineering 331, 332.	3	3	..
Electrical Engineering 321, 322.	2	2	..
* Elective	8	8	8
	18	18	18

*CIVIL ENGINEERING**Junior Year*

H. P. Engineering 341 (342) (343).. . . .	4	4	4
Civil Engineering 342 . . . . .	..	4	..
Civil Engineering 340, 312 . . . . .	..	1	4
Civil Engineering 336	3	..	..
Civil Engineering 322	2	..	..
Civil Engineering 343 . . . . .	..	..	4
Civil Engineering 331 (332) (333).....	3	3	3
Geology 147	4	..	..
Civil Engineering 335.....	..	3	..
† Elective	2	3	3
	18	18	18

Senior Year

Civil Engineering 451, 431	5	3	..
Civil Engineering 443 . . . . .	..	..	4
Civil Engineering 435 . . . . .	..	3	..
Civil Engineering 436, 437, 428	3	..	2
Civil Engineering 433 . . . . .	..	3	..
Civil Engineering 432	3	..	..
Civil Engineering 440	4	..	..
Civil Engineering 438 . . . . .	..	..	3
Civil Engineering 434 . . . . .	..	..	3
Civil Engineering 439 . . . . .	..	..	3
Civil Engineering 530 . . . . .	..	3	..
† Elective	3	3	3
	18	18	18

*HIGHWAY ENGINEERING**Junior Year*

Same as Junior Civil Engineering.

Senior Year

Civil Engineering 451, 431.....	5	3	..
Civil Engineering 425.....	..	2	..
Civil Engineering 436, 437, 428.....	3	3	2
Civil Engineering 532.....	..	..	3
Civil Engineering 433.....	..	3	..

* All electives must be chosen with the consent of the head of the department of Chemistry and the Dean of the College of Engineering. Of these electives 17 hours must be chosen from other courses in chemistry and at least 9 hours in English or a foreign language.

† To be chosen with the advice and consent of the head of the department.

	CREDIT HOURS		
	FALL	WINTER	SPRING
Civil Engineering 440.....	4	..	..
Chemistry 441 (442) (443).....	4	4	4
Civil Engineering 438.....	..	..	3
Civil Engineering 434.....	..	..	3
Civil Engineering 422.....	2	..	..
Civil Engineering 430.....	..	3	..
Civil Engineering 439.....	..	..	3
	18	18	18

ELECTRICAL ENGINEERING

Junior Year

Electrical Engineering 331 (332) 333.....	3	3	3
Electrical Engineering 321 (322) 323.....	2	2	2
Electrical Engineering 324 (325) 326.....	2	2	2
Heat Power Engineering 341 (342) 343.....	4	4	4
Heat Power Engineering 331 (332) 333.....	3	3	3
Experimental Engineering 311 (312) 313.....	1	1	1
*Elective	3	3	3
	18	18	18

SUGGESTED ELECTIVES

English 331 (332) 333.....	3	3	3
Electrical Engineering 334, 434, 435, 436.....	3	3	3
English 534, 535, 536.....	3	3	3
Mathematics 631 (632) 633.....	3	3	3
Foreign Language	4	4	4
Military Art 521 (522) (523).....	2	2	2

Senior Year

Electrical Engineering 431 (432) 433.....	3	3	3
Electrical Engineering 421 (422) 423.....	2	2	2
Electrical Engineering 424 (425) 426.....	2	2	2
Electrical Engineering 417 (418) 419.....	1	1	1
Electrical Engineering 442.....	..	4	..
Electrical Engineering 443.....	..	..	4
Heat Power Engineering 441.....	4	..	..
Economics 639 (433) (434).....	3	3	3
*Electives	3	3	3
	18	18	18

Suggested electives:

Foreign Language .....	..	..	..
Electrical Engineering 438, 439.....	3	3	..
Military Art 531 (532) (533)	3	3	3
Economics .....	..	..	..

MECHANICAL ENGINEERING

Junior Year

Heat Power Engineering 341 (321) (322) (343)	4	4	4
Heat Power Engineering 331 (332) (333).....	3	3	3
Experimental Engineering 321 (322) (323)	2	2	2
Electrical Engineering 331 (332) (333)	3	3	3

*To be chosen with the advice and consent of the head of the department.

	CREDIT HOURS		
	FALL	WINTER	SPRING
Electrical Engineering 311 (312) (313).....	1	1	1
Heat Power Engineering 324 (325) (326).....	2	2	2
*Elective	3	3	3
	18	18	18

Senior Year

Heat Power Engineering 441.....	4	--	--
Electrical Engineering 442.....	--	4	--
Civil Engineering 343.....	--	--	4
Economics 639 (433) (434).....	3	3	3
Heat Power Engineering 421 (422) (423).....	3	3	3
Heat Power Engineering 424 (425) (426).....	2	2	2
Experimental Engineering 421 (422) (423).....	2	2	2
Thesis	1	1	1
*Elective	3	3	3
	18	18	18

REQUIREMENTS FOR THE GRADUATE AND PROFESSIONAL DEGREES IN ENGINEERING

The graduate degrees of *Chemical Engineer*, *Civil Engineer*, *Electrical Engineer*, and *Mechanical Engineer* are granted to students who have completed the required undergraduate course and, in addition, at least one year of graduate work in residence. This graduate work must include one major subject, based on the undergraduate course pursued, and two minor subjects, one or both of which must be closely related to the major subject. The candidate must complete not less than forty-five term credit hours in approved courses and must submit an acceptable thesis in his major subject presenting the results of original research.

The professional degrees of *Chemical Engineer*, *Civil Engineer*, *Electrical Engineer*, and *Mechanical Engineer*, are also conferred upon graduates of the University of Arkansas who have been in successful practice of their profession for at least three years, two of which must have been done after receiving the bachelor's degree. The candidate must have been in responsible charge of work as principal or assistant for at least one year. In addition to this he must present an acceptable thesis giving the results of original research.

The candidate must submit, in writing, to the Committee on Scholarship of the College of Engineering a statement of his professional record, the names of at least three references, and the subject of his thesis, not later than January 1 of the college year in which the degree is sought. The completed thesis must be in the hands of the Committee on Scholarship not later

*To be chosen with the advice and consent of the head of the department.

than May 20 of the same year. A fee of \$2.00 is required, to cover cost of binding the library copy.

DEPARTMENTAL STATEMENTS

SENIOR THESIS

THESIS.—Each senior or graduate student, candidate for a degree, is required to submit the subject of his thesis not later than December 15, and the completed thesis not later than May 10 to a committee consisting of the candidate's major professor and two other members appointed by the dean, for its criticism and approval. All these must be neatly typewritten on one side of plain white paper, eight by ten inches in size, leaving a one-inch margin. When drawings or diagrams are used they should be made to conform to these dimensions or some multiple of them. The first page of the thesis should contain the title and the following statement: "Thesis submitted by.....to the faculty of the University of Arkansas in partial fulfillment of the requirements for the degree of.....", and the date. Theses submitted for bachelor degrees must be at least 2,500 words in length.

CHEMICAL ENGINEERING

PROFESSOR HALE, ASSOCIATE PROFESSOR WERTHEIM, ASSISTANT PROFESSOR HUMPHREYS, DR. PORTER

The requirements for a degree are outlined on previous pages.

The courses in chemistry for chemical engineers are described under the Department of Chemistry.

CIVIL ENGINEERING

PROFESSOR STOCKER, ASSOCIATE PROFESSOR SPENCER, MR. MULLIN

The requirements for a degree are outlined on previous pages.

The courses in civil engineering include theoretical instruction accompanied by illustrations and as much of engineering practice as possible. Much time is devoted to practice in the field, drafting room, and laboratory, this work being carried on parallel with the class work. Each year a party of engineering students goes into camp for one week for practice in surveying and railway location. The courses will give the student a knowledge of fundamental principles that will enable him to enter intelligently upon professional practice.

In recent years many problems have arisen in connection with the construction and maintenance of highways, creating a demand for men who have been trained for this particular branch of engineering. The course in highway engineering has been arranged to aid in training engineers for this work.

A well equipped laboratory has been provided for making all

the standard tests in accordance with the practice of the United States Office of Public Roads.

A laboratory fee of \$2.00 is charged for the following courses in Civil Engineering: 213, 225, 312, 340, 322, 430, 439, 440.

213. **LEVELING AND FARM DRAINAGE.**—Leveling, land surveying, and farm draining. For students in agriculture. Lectures and recitations one hour a week the first part, and field practice three hours the last part, of the term. **STOCKER.**

225. **FIELD PRACTICE.**—Exercises in the field, including land surveying, leveling, public land surveys, and the adjustment of instruments. Field practice, six hours a week. Prerequisite: Plane Trigonometry. Every term. **MULLIN.**

231. **ELEMENTARY SURVEYING.**—General surveying to meet the needs of all engineering students; the care and use of tape, level, and transit; exercises in the field, including land surveying, leveling, public land surveys, and the adjustment of instruments. Lectures and recitations three hours, field practice six hours. Prerequisite: Plane Trigonometry. Every term. **MULLIN.**

312, 340. **RAILROAD SURVEYING.**—Problems and practice in the location of simple, vertical, and transition curves; turnouts, measurements of cuts and fills; setting slope stakes and making computations for volumes. Prerequisites: 225, 231, 322, 336. Winter and spring. **SPENCER.**

342. **RAILROAD SURVEYING.**—Preliminary surveys and location; simple, vertical, and transition curves; turnouts and cross-overs; estimates of earthwork and materials of construction. Prerequisites: 225, 231, 322, 336. Winter. **SPENCER.**

322. **FIELD PRACTICE IN SURVEYING.**—Adjustment of instruments, stadia and plain table work. Land, city, and mine surveying. Field practice six hours. Prerequisite: 225, 231. Fall. **STOCKER.**

331. **DRAWING.**—Computations and drawing of topographical maps from actual surveys. Drawing practice nine hours. Prerequisite: Drawing 221-223. Fall. **SPENCER.**

332 (333). **DRAWING.**—Graphic statics and detail drawing of simple wood and steel roof trusses. Drawing practice nine hours. Prerequisite: Drawing 221-223. Winter and Spring. **SPENCER.**

343. **HYDRAULICS.**—The theory of hydraulics; principles of hydrostatic and hydrodynamic pressures; steam gauging; water measuring devices. Lectures and recitations three hours, laboratory or computation work three hours. Prerequisite: H. P. E. 321, 322, 341, 343. Spring. **MULLIN.**

335. **HIGHWAYS.**—The location, design, construction, and maintenance of earth, gravel, broken stone, concrete, and bituminous macadam roads. Prerequisites: 225, 231, 322, 336. Winter. **STOCKER.**

336. **SURVEYING.**—The use, care, and adjustment of level, transit, plane table, and sextant; methods employed in topographic, land, city, mine, and hydrographic surveying; map making and calculations from field notes. Lectures and recitations three hours. Prerequisite: 225, 231. Fall. STOCKER.

436 (437). **MASONRY AND REINFORCED CONCRETE.**—Stone and brick masonry; plain and reinforced concrete; deep foundations; dams, retaining walls, reinforced concrete structures. Prerequisites: H. P. E. 321, 322, 341, 343. Fall and winter. SPENCER.

428. **CONCRETE DESIGN.**—Design of reinforced concrete structures. Drawing practice six hours. Prerequisites: 440, 436, 437, H. P. E. 321, 322, 341, 343. Spring. SPENCER.

430. **HIGHWAY ENGINEERING LABORATORY.**—Tests on gravel and broken stone to determine hardness, toughness, cementing power, and resistance to abrasion; rattler tests and absorption tests on paving brick; tests on sand and clay; inspection of and tests on bituminous materials. Laboratory six hours. Prerequisite: 335. Winter. SPENCER.

440. **ENGINEERING LABORATORY.**—Tests to determine strength and other properties of materials of construction; tensile and crushing tests on brick and stone; standard tests on natural and Portland cements; tests to determine the effect of graded and ungraded aggregates on concrete. One hour of recitation and six hours of laboratory. Prerequisite: H. P. E. 321, 322, 341, 343. Fall. SPENCER.

439. **ADVANCED SURVEYING.**—Problems in triangulation, topographic surveying, precise leveling, and practical astronomy. Prerequisites: 312, 340, 342. Spring. SPENCER.

422. **HIGHWAYS.**—Proper design, construction, and maintenance of city streets and pavements. Road laws, taxes, bond issues and assessments. Prerequisites: 335, 322, 336. Fall. STOCKER.

451, 431. **ROOF AND BRIDGE STRESSES.**—Computation of stresses in roofs and bridges, chiefly by analytical methods. Special attention given to the subject of train loads for railroad bridges. Prerequisite: H. P. E. 321, 322, 341, 343. Fall and winter. STOCKER.

435. **BRIDGE DESIGN.**—Complete design with detailed drawings and estimates of weight and cost of a plate girder bridge. Prerequisites: 451, H. P. E. 321, 322, 341, 343. Winter. STOCKER.

443. **BRIDGE DESIGN.**—Complete design with detailed drawings and estimates of weight and cost of a riveted or pin connected railroad bridge. Prerequisites: 451-431, H. P. E. 321, 322, 341, 343. Spring. STOCKER.

432. **SEWERAGE.**—Municipal sewage disposal. Computations of quantities of sanitary and storm sewage, design of separate and combined systems of sewers, design of sewage purification

works, and the ultimate disposal of sludge and effluents. Financial, legal, and pathological considerations of sanitation. Prerequisite: 343. Fall MULLIN.

433. WATERWORKS.—Public water supplies. Examination of sources of supply, computations of quantities required, design of reservoirs, purification plants, and distributing systems. Financial, legal, and pathological considerations of municipal water supply. Prerequisite: 343. Winter. MULLIN.

425. HIGHWAY BRIDGE DESIGN.—Problems in the design of highway bridges, determination of waterways, construction and maintenance of highway bridges and culverts. Drawing and computation six hours. Prerequisite: 451. Winter. STOCKER.

532. HIGHWAY BRIDGE DESIGN.—A continuation of 425. Spring. STOCKER.

434. ENGINEERING CONTRACTS AND SPECIFICATIONS.—Legal aspects of contract and specification forms, and instruments for advertisements, proposals, contracts, and bonds; specifications for various kinds of work and materials. Spring. STOCKER.

438. THESIS.—(See SENIOR THESIS on previous pages.) STOCKER.

530. LAND DRAINAGE AND IRRIGATION.—Rainfall and run-off, the survey of drainage basins, the computation of quantities of run off from drainage basins; the design, location, and construction of drainage courses; the financial and legal considerations of land drainage; benefits derived from land drainage. The sources of water supply for irrigation; the design, location, and construction of irrigation works; the application and duty of the water; the financial, legal, and beneficial consideration of irrigation. 336, 343. Winter. MULLIN.

ELECTRICAL ENGINEERING

PROFESSOR GLADSON, PROFESSOR STELZNER, MR. SMITH

The requirements for a degree are outlined on a previous page.

The courses in this department seek to combine general and technical subjects in such proportions as to furnish a good foundation for the profession of electrical engineering. Sufficient theory is taught in the class room and illustrated by laboratory experiments to give the student a knowledge of the underlying principles. Shop experience with manufacturing companies to give the student specific practical training is desirable. Such training should be obtained during vacations and after graduation.

A laboratory fee of \$2.00 is charged for the following courses in Electrical Engineering: 221, 311, 312, 313, 321, 322, 323, 421, 422, 423. (See 417.)

231. ELEMENTS OF ELECTRICAL ENGINEERING.—Introductory. Recitations and demonstration on electric and magnetic circuits

and machines. Measuring instruments, their use and calibration. Prerequisite: Physics 142. Every term. SMITH.

221. ELECTRICAL ENGINEERING LABORATORY.—To accompany 231. Laboratory four hours. Prerequisite: Physics 142. Every terms. SMITH.

331 (332) 333. DYNAMO ELECTRIC MACHINERY.—Direct and alternating current machinery with their general applications. Prerequisite: 231. STELZNER.

321 (322) (323). ELECTRICAL ENGINEERING LABORATORY.—Electrical and magnetic measurements, use and calibration of instruments; testing of direct and alternating current machinery. Four hours a week. To accompany 331-333. STELZNER.

311 (312) (313). ELECTRICAL ENGINEERING LABORATORY.—Electrical and magnetic measurements; use and calibration of instruments; testing of direct and alternating current machinery. Two hours. To accompany 331-333. Required of Mechanical Engineering students. STELZNER.

324 (325) (326). ELECTRICAL ENGINEERING DESIGN.—Problems in direct current machinery, calculations and drawing. Four hours. Prerequisite: 231. SMITH.

334. ILLUMINATING ENGINEERING.—Electric light wiring and different methods of artificial illumination; sources, intensity and distribution of light; physiological and hygienic problems; direct and indirect lighting; reflecting surfaces; illumination and photometric calculations. Prerequisite: 231. Spring STELZNER.

431 (432) (433). ALTERNATING CURRENTS AND ALTERNATING CURRENT MACHINERY.—Lectures, recitations and problems on alternating current circuits and machinery. Prerequisite: 333. STELZNER.

421 (422) (423). ELECTRICAL ENGINEERING LABORATORY.—Laboratory exercises to accompany 431-433. Four hours. STELZNER.

424 (425) (426). ELECTRICAL ENGINEERING DESIGN.—Problems in alternating current machinery, calculations and drawing four hours. To accompany 431-433. SMITH.

443. HYDRO-ELECTRIC ENGINEERING.—Methods of investigating power possibilities of flowing water, collecting data, selecting power sites, designing dams, power house, transmission lines, and machinery. Prerequisite: 231. Spring. GLADSON.

434. TELEPHONY.—The principal systems of telephony in practical use. Prerequisite: General Physics. Spring. SMITH.

436. WIRE TELEGRAPHY.—The principal systems of wire telegraphy; signals and fire alarms. Prerequisite: General Physics. Winter. SMITH.

442. ELECTRICAL EQUIPMENT OF POWER PLANTS.—Selection of electrical machinery for power stations; station construction,

operation, and management. Prerequisite: 333. Winter. GLADSON.

435. WIRELESS TELEGRAPHY.—The principal systems of wireless telegraphy and telephony in practical use. Prerequisite: General Physics. Fall. SMITH.

439. ELECTRICAL RAILWAYS.—Application of electricity to the propulsion of street cars and railway trains. Selection, equipment, and study of the various systems of electric traction. Lectures, recitations, and problems. Prerequisite: 333. Winter. STELZNER.

437. ELECTRICAL ENGINEERING SEMINAR.—Students who attend and take part in at least three-fourths of the meetings of the University of Arkansas Branch of the American Institute of Electrical Engineers during the junior and senior years, and who prepare and present an acceptable original paper on some engineering subject, will be allowed three term hours of credit.

417 (418) (419). THESIS.—(See SENIOR THESIS on previous pages.) GLADSON.

438. ELECTRIC TRANSMISSION AND DISTRIBUTION OF POWER.—Modern methods of transmission and distribution of electric power. Prerequisite: 431. Fall. GLADSON.

MECHANICAL ENGINEERING

There are two departments in Mechanical Engineering: Experimental Engineering and Drawing; and Heat Power Engineering and Mechanical Arts.

The requirements for a degree are outlined on a previous page.

Mechanical Engineers are in demand in various lines of engineering work, such as consulting engineering; power plant designing, constructing, and operating; designing, constructing, erecting, operating, and testing all kinds of machinery; manufacturing; engineering salesmanship; heating and ventilating engineering; and efficiency engineering.

The course in mechanical engineering is designed to give the student a broad foundation in the subjects that are of the greatest importance in his work; a technical education in his chosen field made practical by shop and laboratory courses, and, in electives, a certain amount of specialization and cultural development. It is believed that such a course will enable the student to be of immediate value to his employer and that it will insure certain advancement in his profession.

A laboratory fee of \$2.00 will be charged in the following courses: in Experimental Engineering, 225, 321, 322, 323, 422, 423; in Trade Courses, 41, 42, 43; in Mechanic Arts, 121, 122, 123, 124, 125, 435.

Experimental Engineering and Drawing

PROFESSOR WILSON, MR. MULLIN

225. MECHANICAL LABORATORY.—Elementary laboratory work to acquaint the student with the use and operation of power plant equipment. One lecture and three hours laboratory. Prerequisite: Physics 146. To accompany Heat Power 231. Every quarter. WILSON AND MR.———.

311 (312) (313). MECHANICAL LABORATORY.—Similar to 321. WILSON.

321 (322) (323). MECHANICAL LABORATORY.—The calibration of engineering instruments, such as indicators, planimeters, nozzles, and meters; valve setting, efficiency tests of steam engines and boilers. Laboratory four hours. Must be preceded or accompanied by Heat Power Engineering 331-333. Prerequisite: 225. WILSON.

421 (422) (423). MECHANICAL LABORATORY.—Properties of engineering materials investigated experimentally. Complete test of some power or pumping plant. Special investigations. Four hours of laboratory. Prerequisites: Heat Power 343, Exp. Eng. 225. WILSON.

417 (418) (419). THESIS. (See previous page.) WILSON.

Drawing

121 (122) (123). MECHANICAL DRAWING.—Instruction in the selection, use, and care of instruments, lettering, sketching, and working drawings. The latter half of this course is devoted to elementary Descriptive Geometry. The problems are assigned and worked out in the drawing room. Six hours of drawing. Prerequisite: None. MULLIN.

221, (222) (223). MECHANICAL DRAWING.—Elementary course, including lettering, technical sketching, and machine parts, detail and assembly drawing, tracing and blue-printing, perspective and isometric drawing, and empirical machine design. Drawing practice six hours. Prerequisite: Drawing 123. WILSON AND MR.———.

224 (225) (226). ARCHITECTURAL DRAWING.—Plans and specifications, details, bills of material, perspective drawing, orders of architecture. Drawing practice six hours. Prerequisite: 121-123. WILSON.

227 (228). LETTERING.—Freehand lettering, titles for maps and drawings, graphs. Drawing practice six hours. Winter and spring. MULLIN.

Heat Power Engineering and Mechanic Arts

PROFESSOR BAENDER, MR. MORRISON, MR. JONES, MR. DINWIDDIE,
MR. THOMPSON

Heat Power Engineering

341. THEORETICAL MECHANICS.—A mathematical treatment of the laws of motion, statics, inertia, and kindred subjects. Prerequisite: Mathematics 251-252. Fall. BAENDER.

321. THEORETICAL MECHANICS.—Continuation of course 341. Winter. BAENDER.

322. STRENGTH OF MATERIALS.—A mathematical discussion of the strength of beams, girders, trusses. Also covers the design of reinforced concrete beams and columns. Prerequisite: Mathematics 251-252. Winter. BAENDER.

343. STRENGTH OF MATERIALS.—A continuation of course 322. Spring. BAENDER.

324 (325) (326). MACHINE DESIGN.—The kinematics of machinery, gear wheels, and link motion. Designs made of complete lathes, punches, and similar machines. Complete working drawings, including the application of theory to practical problems. Must be preceded or accompanied by course 341 (342) (343). Lectures and recitations two hours, drawing six hours. Prerequisite: 341-343 Shop. MORRISON.

331 (332) (333). HEAT POWER ENGINEERING.—The thermodynamic theory underlying heat engines and its application to the steam and gas engines; valves and valve gears analyzed by the valve diagrams. Boilers, superheaters, and the properties of saturated and superheated steam. Prerequisites: Physics 241-243, Mathematics 251-252. BAENDER.

441. MECHANICAL EQUIPMENT OF POWER PLANTS.—The selection of machinery for power plants, coal handling, and ash-handling. The characteristics of operation of the various types of prime movers and auxiliaries under variable loads so that equipment best adapted for the problems at hand may be selected. Prerequisite: 331-333. Fall. BAENDER.

417 (418) (419). THESIS.—(See SENIOR THESIS on previous pages.) BAENDER.

231. HEAT ENGINES.—For second year students. To give general information about power plant equipment. Elementary heat theory introduced. Prerequisite: None. Every term. MORRISON.

421 (422) (423). HEAT ENGINEERING.—A mathematical discussion and the design of refrigeration machinery, heating, and ventilating. Prerequisite: 331-333. MORRISON.

424 (425) (426). ADVANCED DESIGN.—Designs will be made of complete gas engines, steam engines, and other heat engines. Prerequisites: 331-333, 324-326. MORRISON.

Mechanics Arts

121. WOODWORK.—Joinery, use and care of tools, making of patterns and core boxes. Shop practice six hours. Prerequisite: None. Given in any term. DINWIDDIE.

122. **FORGING.**—Management of fires, drawing, welding, annealing and tempering of tools. Shop practice six hours. Prerequisite: None. Given in any term. THOMPSON.

123. **MACHINE SHOP.**—Bench work on chipping and filing, turning, thread cutting, planing, and grinding. Shop practice six hours. Prerequisite: None. Given in any term. JONES.

124. **CARPENTRY.**—Especially for students in Agriculture. Use and care of tools, grinding and sharpening edge tools, setting and filing saws. Commercial methods of handling lumber, construction of modern farm buildings; preparing lists of material, plain roof framing, use of steel square. Shop practice six hours. Given in any term. Prerequisite: None. DINWIDDIE.

125. **FORGE WORK.**—Especially for students of Agriculture. Handling of fires, annealing, drawing, and welding. Special problems are worked out that are most suitable for farm work. Shop practice six hours. Prerequisites: None. Any term. THOMPSON.

435. **ADVANCED SHOP.**—Advanced work in either woodwork, forging, or machine shop, or a combination of these. Prerequisites: Shop 121, 122, 123. Fall. JONES, DINWIDDIE, AND THOMPSON.

SHORT COURSE IN ELECTRICAL AND MECHANICAL ENGINEERING

MR. DINWIDDIE, MR. MCKINLEY, MR. KING, MR. IRBY, MR. STARBIRD, MR. JONES, MR. THOMPSON, MR. BARTON,
MR. ADAMS

The following course is offered to students who have at least a grammar school education and who desire to prepare themselves for advancement in the trades, or to become familiar with the care, operation, and repair of some line of machinery. The course is intended to give the student a working knowledge of steam, gas, and electrical machinery, in addition to his shop training.

Upon the satisfactory completion of two years of work, a certificate will be issued.

A fee of \$2.00 per term is charged for the following courses: (121), (122), (123), (44), (45), (46), (42), (43), (62), (63), (64), (41), (53).

First Year Fall Term

	HOURS	
	RECITATION	PRACTICE
(41) Steam Boilers	4	3
(44) Elementary Electricity	4	3
(11) Drawing .....	..	6
(121) Blacksmithing .....	..	6
(14) Arithmetic	4	—
(1) Physics	4	2

Winter Term

	HOURS	
	RECITATION	PRACTICE
(42) Steam Engines.....	4	3
(45) Direct Current Machinery.....	4	3
(12) Drawing	--	6
(122) Woodworking	--	6
(17) Arithmetic	4	--
(2) Physics	4	2

Spring Term

(43) Gas Engines	4	3
(46) Direct Current Machinery.....	4	3
(13) Drawing	--	6
(123) Machine Shop.....	--	6
(15) Geometry	4	--
(3) Physics	4	2

Second Year

Fall Term

(62) Alternating Currents	4	3
(51) Mech. Equip. of Power Plants.....	4	--
(20) Drawing	--	6
(7) Algebra	4	--
(27) Mechanics	4	--

Winter Term

(63) Alternating Currents	4	3
(52) Elec. Equip. of Power Plants.....	4	--
(21) Drawing	--	6
(8) Algebra	4	--
(28) Mechanics	4	--

Spring Term

(64) Alternating Currents	4	3
(53) Steam and Gas Machinery and Laboratory.....	4	4
(22) Drawing	--	6
(9) Trigonometry	4	--
*Elective	4	--

*Electric Railways 53.

Electric Transmissions 54.

Illumination 55.

*These electric courses are regular college courses which the short course men are permitted to attend, but with the understanding that no college credit will be given.

ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station was established by act of the Board of Trustees of the University of Arkansas, on November 6, 1920.

The purpose of the station is to make investigations and study engineering problems of general interest to the people of Arkansas, to serve the mechanical industries of the state, and the urban population, as the agricultural experiment stations serve the rural population, and to solve engineering problems for the agricultural interests of the state.

The station organization has not been fully completed. The management in general is vested in the President of the University, the Dean of the College of Engineering, and heads of departments of engineering.

The Dean, and all instructors of engineering, are expected to engage in scientific research in addition to their usual teaching duties. There are, as yet, no full time research men employed.

The results of scientific investigations will, from time to time, be published in bulletin form and distributed free upon request.

GENERAL EXTENSION DIVISION

ADMINISTRATIVE OFFICERS

JOHN C. FUTRALL, M. A., LL. D., *President.*

ARTHUR M. HARDING, Ph. D., *Director of General Extension.*

HENRY G. HOTZ, Ph. D., *In Charge of Educational Surveys.*

JOHN CLARK JORDAN, Ph. D., *In Charge of High School Debating League.*

EVANGELINE PRATT, B. A., *Secretary, In Charge of Correspondence Instruction.*

WILLIAM B. STELZNER, B. E. E., E. E., M. S., *In Charge of Engineering Instruction.*

STAFF

FREDRICK G. BAENDER, B. M. E., *Professor of Heat Power Engineering.*

S. J. BRANDENBURG, Ph. D., *Professor of Economics and Sociology.*

G. N. CADE, M. A., *Director of Teacher Training.*

G. H. CADY, Ph. D., *Professor of Geology.*

ADA CANNADY, M. A., *Instructor in English.*

- LULU B. CHASE, M. A., *Instructor in Education.*
 J. H. CARMICHAEL, *Instructor in Commercial Law and Economics.*
 REX CLARK, *Instructor in Banking.*
 J. E. DAVIS, Ph. D., *Assistant Professor of Mathematics.*
 M. R. ENSIGN, M. A., *Associate Professor of Agricultural Education.*
 HARRISON HALE, Ph. D., *Professor of Chemistry.*
 F. R. HAMBLIN, M. A., *Instructor in Ancient Languages.*
 J. L. HANCOCK, Ph. D., *Associate Professor of Ancient Languages.*
 A. M. HARDING, Ph. D., *Professor of Mathematics and Astronomy.*
 H. G. HOTZ, Ph. D., *Professor of Secondary Education.*
 JEWELL C. HUGHES, M. A., *Instructor in Mathematics.*
 A. W. JAMISON, M. S., *Associate Professor of Economics and Sociology.*
 J. R. JEWELL, Ph. D., *Professor of Education.*
 VIRGIL L. JONES, Ph. D., *Professor of English.*
 A. M. JORDAN, Ph. D., *Professor of Psychology.*
 J. C. JORDAN, Ph. D., *Professor of English.*
 JAMES KESSLER, A. M., *Associate Professor of Romance Languages.*
 A. E. LUSSKY, Ph. D., *Professor of German.*
 ANTONIO MARINONI, M. A., *Professor of Romance Languages.*
 URY MCKENZIE, B. A., *Instructor in Education.*
 OWEN MITCHELL, *Assistant in Music.*
 M. AGNES NELSON, Ph. B., *Instructor in Home Economics.*
 L. A. PASSARELLI, M. A., *Assistant Professor of Romance Languages.*
 H. H. PEASE, B. A., *Instructor in Economics and Sociology.*
 MARY PENDERCAST, M. A., *Instructor in English.*
 SIDNEY PICKENS, A. B., *Instructor in Education.*
 C. M. REINOEHL, Ph. D., *Professor of School Administration.*
 J. W. RAMSEY, M. A., *Instructor in Education.*
 G. E. RIPLEY, M. S., *Professor of Physics.*
 J. G. ROSSMAN, M. A., *Instructor in Education.*
 ROWENA SCHMIDT, B. S. E., *Assistant Professor of Home Economics.*
 MURRAY SHEEHAN, M. A., *Associate Professor, Journalism.*
 W. B. STELZNER, E. E., M. S., *Professor of Electrical Engineering.*
 G. P. STOCKER, B. S., C. E., *Professor of Civil Engineering.*
 D. Y. THOMAS, M. A., Ph. D., *Professor of History.*
 B. N. WILSON, M. M. E., *Professor of Experimental Engineering and Drawing.*
 ELIZABETH P. WILSON, *Instructor in Education.*

The purpose of the University of Arkansas is to serve not only a group of qualified resident students, but all the people of the state. To this end the University Extension Service was estab-

lished, the General Extension Division to represent the Colleges of Engineering, Arts and Sciences, Education, and the Agricultural Extension Division to represent the College of Agriculture.

The General Extension Division places at the disposal of the people of Arkansas the same opportunities for instruction and culture offered resident students, disseminates the valuable knowledge obtained from research and investigation, and is the medium through which many educational and public service resources outside the state are made available for effective public use.

The activities of the General Extension Division may be classified under the following heads. It should be understood, however, that the services rendered are by no means limited to those mentioned. The scope of the usefulness of the Division extends into new fields whenever an opportunity to be of service presents itself.

CORRESPONDENCE INSTRUCTION.—To those persons who cannot attend the University, the Bureau of Correspondence Instruction furnishes extension courses in vocational, technical, and cultural subjects, carrying the same credit as residence courses and supervised by the same instructors. A certificate is granted upon completion of every course. This service is invaluable professionally to teachers, working men, business men, and students working toward a degree, as well as to persons studying for culture alone. A number of preparatory courses are offered for those to whom high school training is not available or practicable. Any grammar school graduate may enroll in these courses. There are special courses for teachers which they may take in place of teachers' examinations to raise the grade of their certificates, and special reading circle courses, whereby they may get University credit and meet the reading circle requirements at the same time.

CLUB STUDY COURSES.—Subjects which are of greatest interest to the clubs of the state are selected by the General Extension Division, and courses of twelve lessons are prepared on each. Each lesson contains references and questions and forms a complete program for one meeting. If desired, all necessary reference books will be furnished, and year books will be printed for the club.

VISUAL INSTRUCTION.—The Bureau of Visual Instruction functions in a number of ways. It furnishes films for school and community entertainment, circulates free films from various sources, and educational films at cost from the best distributors.

Sets of slides on almost any grammar or high school subject are supplied from the Bureau's own library, and a number of other sets from other sources are distributed.

LECTURES AND ENTERTAINMENTS.—The General Extension Division arranges for lectures and entertainments to be given by prominent professional men and women, ministers, musicians,

state officials, and university professors on a wide range of subjects. This service gives business men an opportunity to hear talks by experts in their particular fields; gives women an opportunity to attend lectures of definite interest to them; furnishes speakers and musical programs for special occasions; and serves to extend the educational influence of the University generally, as well as to further community spirit.

At present there is no fund available to cover the expense connected with this service. Consequently the General Extension Division is compelled to charge a small fee, which is the same for all towns in the state, so that the towns near Fayetteville have no advantage over those more remote.

LYCEUM COURSES.—The General Extension Division can furnish a limited number of lyceum courses. These courses are offered at cost. Their quality is above the average, many of the numbers being given by University artists.

In securing other talent, the General Extension Division gets an option on a number of engagements for professional concert companies and entertainments, and acts as a clearing house for these dates. In this way much can be saved on the cost of the local lyceum course.

ARKANSAS HIGH SCHOOL DEBATING LEAGUE.—This organization is for the promotion of the consideration and discussion of present day problems. On account of the great increase in membership in the League, the state has been divided into six districts. In each district preliminary debates are held to eliminate to one school. Debates are then held between the three northern districts and between the three southern districts. The two schools which are winners in these debates then send their teams to the University for the final debates and honors.

CLASS STUDY.—Extension classes are organized in any community and in any subject where the enrollment justifies it. These classes are taught by University instructors. The courses given are standard courses, under the supervision of the College under which they fall, and University credit is granted those who complete the work. Class centers have been established at Little Rock, Fort Smith, Batesville, Fayetteville, North Little Rock, and Helena.

PHONOGRAPH RECORDS.—To cultivate an appreciation and understanding of good music, the General Extension Division sends out sets of the best records, selected by the Department of Fine Arts, making up complete programs, accompanied by suitable lecture material.

CLUB STUDY OUTLINES.—Study outlines are furnished free of charge on subjects of interest to clubs. Lists of references are furnished with these outlines; it is often possible for reference books to be loaned from the General Extension Division.

PLAYS AND RECITATIONS.—To assist in the selection of good

plays, the General Extension Division lends copies from its library of plays from which one may be selected for local use. Readings may be borrowed, copies of the most suitable ones made, and the originals returned. Excellent contest material may be found in these readings.

GENERAL INFORMATION.—The General Extension Division endeavors to answer questions and give information on all subjects. Lists of references and packages of collected material are sent whenever possible. This service is free, and is found invaluable by individuals, clubs, civic societies, and other organizations.

COMMUNITY INSTITUTES.—To secure unified action toward community improvement, the General Extension Division conducts community institutes, designed to make systematic investigation of local problems and to carry on profitable discussion which will lead to the solution of such problems. These institutes consist of one, two, or three-day programs on which appear local people, the best known men and women from the State Departments, clubs and associations, and from the University and other educational institutions. Lectures and illustrated talks are given, demonstrations offered, motion pictures shown, and conferences held. Modern business methods, co-operation between merchant and farmer, public health, city beautification, and similar subjects are considered. "Get together meetings" are held at night, consisting of musical programs, picture shows, home talent plays, informal discussions, and similar things of interest.

SCHOOL SURVEYS.—The College of Education, through the General Extension Division, is glad to assist any community in making a survey of its schools. School authorities wishing to compare their local system with national standards can do so through the school survey.

EDUCATIONAL INFORMATION AND ASSISTANCE.—Through the General Extension Division, the College of Education offers its services to any community making an effort to improve its system of public schools. The members of the faculty are ready at all times to address county and city teachers' meetings, women's clubs, and other organizations on educational topics. Any school problem whatever, which may arise, will be carefully considered and capable assistance given.

The Bureau of Tests and Measurements is maintained for the purpose of assisting the school systems of Arkansas in standardizing their work in the various grades. It is ready to furnish at cost the best tests available, or, in case the tests needed are not in stock, to put those interested in touch with the proper source of supply. The Bureau will tabulate results, score papers, when necessary, and publish from time to time bulletins showing the comparative standing of the schools co-operating. The results will be interpreted by experts and recommendations made

to the principals and superintendents as to possible changes in curriculum, standards of promotion, or treatment of individual cases.

The College of Education publishes regularly a bulletin of abstracts and reviews, for the purpose of selecting from the numerous books which appear each year the most valuable ones for the use of teachers, and to aid the intelligent choice of books for the school room library.

A Recommendation Bureau is maintained to assist in placing students of the University in teaching positions. This service is free and has proved invaluable in bringing together good situations and suitable teachers.

COLLEGE OF AGRICULTURE

The courses in the College of Agriculture are designed to train men for work in agriculture as farmers, farm managers, county agricultural agents, teachers of vocational agriculture, animal husbandmen, horticulturists, managers of farmers' organizations, marketing agents, research and extension specialists, and various other lines of work now open to graduates of colleges of agriculture; and to train women for work in Home Economics as teachers, vocational teachers in Smith-Hughes schools, county home demonstration agents, dietitians, managers of homes, and similar duties.

ADMISSION

For detailed statement of entrance requirements and descriptions of subjects accepted for entrance, see a previous page.

COURSES OF STUDY

The College of Agriculture offers the following courses:

1. A four-year general course in Agriculture.
2. A four-year course in Agronomy.
3. A four-year course in Animal Husbandry.
4. A four-year-course in Dairy Husbandry.
5. A four-year course in Horticulture.
6. A four-year course in Plant Pathology. (Requirements on application.)
7. A four-year course in Agricultural Chemistry. (Requirements on application.)
8. A four-year course in Entomology. (Requirements on application.)
9. A four-year combined course in Entomology and Plant Pathology. (Requirements on application.)
10. A four-year course in Agricultural Education for teachers in Smith-Hughes Vocational Schools, offered in conjunction with the College of Education.

11. A four-year course in Agriculture for the training of County Agents and other Extension workers.

All of the courses listed above lead to the degree of Bachelor of Science in Agriculture (B. S. A.). In addition, special short courses in agriculture are offered.

12. A four-year course in Home Economics.

13. A four-year course in Home Economics for the training of teachers in Smith-Hughes Vocational Schools offered in conjunction with the College of Education.

14. A four-year course for home demonstration agents.

The last three courses lead to the degree of Bachelor of Science in Home Economics (B. S. H. E.). In addition, special short courses are given for farm women and others.

REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily two hundred and ten credit hours as outlined in the following courses of study. The first two years are considered as foundation years and are the same for all courses in agriculture. The junior and senior years involve more highly specialized work.

Required subjects must be taken in regular order as scheduled. Courses with prerequisites cannot be taken out of their regular order without the consent of the head of the department and the Dean of the College.

FOUR-YEAR GENERAL COURSE IN AGRICULTURE

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131, 132, 133.....	3	3	3
Chemistry 141, 142, 143.....	4	4	4
Botany 141, 142, 143.....	4	4	4
Trigonometry 131.....	3	..	..
Agronomy 142, (Crops).....	..	4	..
Horticulture 133, (Vegetable Gardening).....	..	..	3
A. H. 131 (Judging of Market Classes).....	3	..	..
Mech. Eng. 122 (Forge Shop).....	..	2	..
Mech. Eng. 124 (Wood Work).....	..	..	2
Agr. Eng. 113 (Graphic Methods).....	..	..	1
Military Art 111, 112, 113.....	1	1	1
	18	18	18

Sophomore Year

Chem. 241 (Qualitative Analysis).....	4	..	..
Agr. Chem. 242 (Agricultural Chemistry).....	..	4	..
Chem. 243 (Organic Chemistry).....	..	..	4
Physics 241, 242.....	4	4	..
A. H. 232 (Poultry).....	..	..	3

	CREDIT HOURS		
	FALL	WINTER	SPRING
Geology 231.....	3	..	..
Agron. 232, 233 (Soils).....	..	3	3
Agr. Eng. 231 (Farm Machinery).....	3	..	..
A. H. 231 (Dairying).....	..	3	..
Agr. Eng. 233 (Practical Farm Drainage).....	..	..	3
Horticulture 231.....	3	..	..
Zoology 232-243.....	..	3	4
Military Art 211, 212, 213.....	1	1	1
	<u>18</u>	<u>18</u>	<u>18</u>

At the beginning of the junior year the candidate may choose the general course in agriculture, or a major subject in one of the various departments of the College, the choice of which will determine largely his course of study for the junior and senior years.

Students taking any of the major courses outlined on the following pages will choose from courses approved by the candidate's major professor so as to include for the junior and senior year not less than thirty, nor more than thirty-four, credit hours in the major subject.

GENERAL COURSE

The following course is prescribed for those who desire a general course in agriculture. The electives in this general course in the junior and senior years are subject to approval by the Dean of the College of Agriculture.

Junior Year

English 331, 332, 333.....	3	3	3
A. H. 352 (Feeds and Feeding).....	..	5	..
Bact. 351 (General Bacteriology).....	..	..	5
Econ. 331, 332 (Agricultural Economics).....	3	3	..
Agron. 331, 332, 333 (Farm Crops).....	3	3	3
A. H. 351 (History of Breeds and Pedigrees).....	5	..	..

Senior Year

Agr. Econ. 431, 432 (Farm Management)....	3	3	..
Ent. 252 (Economic Entomology)....	5	..	..
P. P. 352 (Plant Pathology).....	..	5	..
Agr. Eng. 442 (Farm Buildings).....	..	4	..
A. H. 433 (Animal Breeding).....	..	..	3
Hort. 331 (Market Gardening).....	3	..	..

Electives junior and senior year, 37 hours, of which 15 hours must be chosen from subjects in the following departments:

Animal Husbandry.
 Agricultural Chemistry.
 Agricultural Engineering.
 Agricultural Economics.
 Agronomy.
 Bacteriology.
 Entomology.
 Horticulture.

Plant Pathology.
 Veterinary Science.
 Agricultural Education.

The remainder may be chosen from any Department of the College of Agriculture or of the University.

AGRONOMY MAJOR

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331, 332, 333.....	3	3	3
Agronomy 331, 332, 333 (Field Crops).....	3	3	3
Agronomy 345, 346 (Soil Fertility).....	4	4	..
Bacteriology 351 .....	..	..	5

Senior Year

Major Courses in Agronomy	13
Agr. Eng. 442 (Farm Buildings)	4
Plant Pathology 352	5

Electives in the junior and senior years must include not less than six of the following subjects:

Agricultural Chemistry (341).
 Agricultural Engineering (331 or 333).
 Bacteriology (543 or 544).
 Farm Management (431-432).
 Plant Pathology (442).
 Education (242) and (130 or 331).
 Agricultural Economics (331-332).
 Animal Husbandry (351 or 352).
 Economic Entomology (252).
 Horticulture (331 or 332).
 Veterinary Science (341 or 333).
 Vocational Education (330) or Practice Teaching.

Additional electives may be chosen from any Department of the College of Agriculture or from the following: Economics, Sociology, Public Speaking, Journalism, History, Political Science, Language or Science.

ANIMAL HUSBANDRY MAJOR

Junior Year

English 331, 332, 333	3	3	3
Bact. 351 (General Bacteriology).....	..	..	5
A. H. 351 (History of Breeds and Pedigrees).....	5	..	..
A. H. 352 (Feeds and Feeding).....	..	5	..
A. H. 331 (Animal Breeding).....	..	..	3
A. H. 321, 322 (Live Stock Judging).....	..	2	2
Vet. Sci. 341, 331, 332 (Veterinary Science).....	4	3	3
Bot. 341 (Genetics).....	4	..	..

Senior Year

Major Courses in Animal Husbandry	13
Agr. Eng. 442 (Farm Buildings)	4
Electives (Junior and Senior).....	40

Electives in the junior and senior years to include not less than six of the following subjects:

Agricultural Economics (331-332).
 Farm Management (431-432).
 Agronomy (331-332-333).
 Agronomy (345-346).
 Horticulture (342 or 349).
 Agricultural Engineering (331).
 Dairy Husbandry (A. H. 333 or 437).
 Poultry Production (A. H. 435).
 Economic Entomology (252).
 Bacteriology (543).
 Agricultural Chemistry (351 or 335).
 Education (242 and 130 or 331).
 Vocational Education (330) or Practice Teaching.

Additional electives may be chosen from any department of the College of Agriculture or from the following: Economics, Sociology, Public Speaking, Journalism, History, Political Science, Language, and Science.

DAIRY HUSBANDRY MAJOR

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331-332-333	3	3	3
Bact. 351 (General Bacteriology) .....	..	..	5
A. H. 351 (History of Breeds and Pedigrees)	5	..	..
A. H. 352 (Feeds and Feeding) .....	..	5	..
A. H. 331 (Animal Breeding) .....	..	..	3
Vet. Sci. 341 331 332 (Veterinary Science)	4	3	3
A. H. 341 (Creamery Butter Making and Accounting) .....	..	4	..
A. H. 333 (Dairy Stock Judging) .....	..	..	3
Bot. 341 (Genetics)	4	..	..

Senior Year

Major Courses in Dairy Husbandry	12
Agr. Eng. 442 (Farm Buildings)	7
Bacteriology 543	4
Electives (Junior and Senior)	36

Electives in the junior and senior years to include not less than six of the following subjects:

Agricultural Economics (331-332).
 Farm Management (431-432).
 Agronomy (331-332-333).
 Agronomy (345-346).
 Horticulture (342 or 349).
 Agricultural Engineering (331).
 Animal Husbandry (321-322).
 Poultry Production (435).
 Economic Entomology (252).
 Bacteriology (543).

Agricultural Chemistry (351 or 335).

Education (242 and 130 or 331).

Vocational Education (330) or Practice Teaching.

Additional electives may be chosen from any department of the College of Agriculture, or from the following: Economics, Sociology, Public Speaking, Journalism, History, Political Science, Language, and Science.

HORTICULTURAL MAJOR

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331-332-333	3	3	3
Hort. 331 (Market Gardening)	3	..	..
Hort. 332 (Orchard Management) .....	..	3	..
Hort. 333 (Small Fruits) .....	..	..	3
Ent. 252 (Economic Entomology).....	5	..	..
Agron. 345-346 (Soil Fertility).....	4	4	..
Bot. 341 (Genetics).....	..	4	..
Hort. 339 (Potato Production).....	..	..	3
Electives	3	4	9
	18	18	18

Senior Year

Hort. 441 (Harvesting and Refrigeration).....	4	..	..
Hort. 437 (Spraying and Spray Materials).....	..	..	3
Plant Pathology 352 .....	..	5	..
Bacteriology 351 .....	..	..	5
Agr. Eng 442 (Farm Buildings) ..	..	4	..
Electives	12	7	8
	16	16	16

Students majoring in Horticulture must take at least eleven additional hours of work in Horticultural subjects to satisfy major requirements.

At least six subjects must be elected from the following list:

Agricultural Chemistry 242.

Agricultural Economics 331-332, 431-432, 521, 531.

Agricultural Engineering 233, 311, 333.

Agronomy 331, 332, 333, 345-346.

Animal Husbandry 351, 352, 341, 430, 433.

Bacteriology and Pathology 544.

Botany 331, 347, 556, 546.

Education 141, 143, 240, 242.

Entomology 333, 334, 430.

French 141-142-143.

Geology 144, 145, 146, 230.

German 141-142-143.

Journalism 537-538-539, 621-622-623.

Plant Pathology 444, 435, 436, 447.

Psychology 140, 531.

Public Speaking 534, 535, 536.

Spanish 141-142-143.

Additional electives may be chosen from any subject in the College of Agriculture, or in Economics and Sociology, Education, Public Speaking, Journalism, History, Political Science, Language, or Science.

AGRICULTURAL EDUCATION MAJOR

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331-332-333	3	3	3
Educ. 130 (Teaching Process).....	3	"	"
Educ. 131 (Teaching Process).....	"	4	"
Psychology of Teaching.....	"	"	4
	<hr/> 6	<hr/> 7	<hr/> 7

Senior Year

Vocational Agricultural Education 330.....	"	"	3
Special Methods and Practice Teaching.....	"	"	12
	<hr/>	<hr/>	<hr/> 15

Electives in the junior and senior years to include not less than eight of the following subjects:

- Economics 331-332-531-521.
- Agricultural Engineering 322, 442, 331.
- Animal Husbandry 331, 351, 352, 450.
- Agronomy 331-332-333.
- Bacteriology 351.
- Economic Entomology 252.
- Agri. Econ. 431-432 (Farm Management).
- Horticulture 331-437.
- Veterinary Science 331-332.
- Plant Pathology 352-442.
- Soil Fertility 345-346.

Additional electives may be chosen in any department of the College of Agriculture, or in Political Economy, Sociology, History, English, Languages, or Sciences.

REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE IN HOME ECONOMICS

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily one hundred ninety-eight credit hours as outlined in the following courses of study. The first two years are considered as foundation years and are the same for all courses in Home Economics. The junior and senior years involve more highly specialized work.

Freshman Year

English 131, 132, 133.....	3	3	3
Chemistry 141, 142, 143.....	4	4	4
H. E. 131, 132, 133 (Elementary Sewing).....	3	3	3

	CREDIT HOURS		
	FALL	WINTER	SPRING
H. E. 136, 137, 138 (Foods).....	3	3	3
Art 134, 135, 136 (Elementary Design).....	3	3	3
Physical Education 111, 112, 113.....	1	1	1
	<hr/> 17	<hr/> 17	<hr/> 17

Sophomore Year

Zoology 241, 242 and 243.....	4	4	4
Psychology 140 .....	..	4	..
Chemistry 241, 242 or Agri. Chem. 243.....	4	..	4
H. E. 227 (Survey of Home Economics Literature) ..	..	2	..
H. E. 238 (Health and Child Care).....	..	..	3
H. E. 234, 235, 236 (Textiles and Clothing Economics) ..	3	3	3
H. E. 222, 223 (Study of Costume).....	2	2	..
Physical Education 211, 212, 213.....	1	1	1
Electives	3	1	2
	<hr/> 17	<hr/> 17	<hr/> 17

After the second year the student may choose one of the following courses:

GENERAL COURSE

Junior Year

Economics or Sociology.....	4	..	..
Modern Language	4	4	4
Bacteriology 342	4	..	..
H. E. 331, 332, 323 (Food Economics and Advanced Food Preparation).....	3	3	2
A. H. 430 (Meat and Its By-Products).....	..	3	..
H. E. 324 (Household Problems).....	..	2	..
*Electives	1	4	10
	<hr/> 16	<hr/> 16	<hr/> 16

Senior Year

English .....	..	4	4
Modern Language	3	3	3
H. E. 441 (House Planning)	4	..	..
H. E. 442 (House Furnishing).....	..	4	..
H. E. 443 (Social, Legal, and Economic Position of Women) .....	..	..	4
H. E. 361 (Household Management)	6	..	..
*Electives	3	5	5
	<hr/> 16	<hr/> 16	<hr/> 16

VOCATIONAL HOME ECONOMICS TEACHER-TRAINING COURSE

The teacher's certificate, in addition to the degree of Bachelor of Science in Home Economics, is granted to all candidates for a degree who complete the following courses. This course is offered by agreement between the College of Education and the College of Agriculture and is designed especially for the training of teachers in Vocational Home Economics in Smith-Hughes Vocational Schools (see College of Education).

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
Ed. 111, 112, 113 (Principles of Education).....	1	1	1
Economics and Sociology.....	4	..	..
H. E. 331, 332 (Food Economics).....	3	3	..
Ed. 240 (Tests and Measurements).....	4	..	..
Ed. 241 (Teaching Process).....	..	4	..
Ed. 243 (Principles of Secondary Education)...	..	..	4
Ed. 341 (Methods of Teaching Home Economics)	..	..	4
Agr. Eng. 322 (Farm Home Conveniences)...	..	2	..
Bacteriology 342.....	4	..	..
H. E. 324 (Household Problems)...	..	2	..
*Electives.....	..	4	7
	16	16	16

Senior Year

Ed. 350 (Practice Teaching).....	..	5	5
H. E. 361 (Household Management).....	6	..	..
H. E. 441 (House Planning).....	4	..	..
H. E. 442 (House Furnishing).....	..	4	..
H. E. 443 (Social, Legal, and Economic Position of Women).....	..	..	4
H. E. 334, 335, 336 (Dietetics).....	3	3	3
*Electives.....	3	4	4
	16	16	16

*HOME DEMONSTRATION COURSE**Junior Year*

Economics or Sociology.....	4	..	..
H. E. 331, 332 (Food Economics).....	3	3	..
H. E. 531 (Millinery).....	..	..	3
H. E. 324 (Household Problems).....	..	2	..
Hort. 131 (Vegetable Gardening).....	..	..	3
A. H. 232 (Farm Poultry Culture).....	3	..	..
A. H. 43 (Meat and By-Product).....	..	3	..
*Electives.....	3	5	7
	16	16	16

Senior Year

H. E. 361 (Household Management).....	6	..	..
H. E. 441 (House Planning).....	4	..	..
H. E. 442 (House Furnishing).....	..	4	..
H. E. 443 (Social, Legal, and Economic Position of Women).....	..	..	4
Agri. Econ. 521 (Extension Methods).....	..	2	..
Agr. Eng. 322 (Farm Home Conveniences).....	..	2	..
H. E. 334, 335, 336 (Dietetics).....	3	3	3
*Electives.....	3	5	9
	16	16	16

*To be chosen on advice of major professor. A maximum of 12 hours of course will be given as credit toward the degree of Bachelor of Science in Home Economics, including the first year's work. Not more than 6 hours may be taken in any one year.

DEPARTMENTAL STATEMENTS

AGRICULTURAL CHEMISTRY

PROFESSOR READ, ASSOCIATE PROFESSOR SURE

Agricultural Chemistry deals mainly with the changes occurring in the soil, the growth and life of plants, animal nutrition, and the preparation of food products. The development of agriculture is calling for an ever-increasing number of chemists. Educational and commercial positions are open to both men and women, and there is an ever-growing demand and abundant opportunity for teachers, for investigators, and for professional agricultural chemists. The courses offered are planned to give the student in agriculture or home economics a broad view of the subject, and to provide the proper training for instructional and experimental work in the various fields of chemical activity as applied to agriculture.

230. VITAMINS AND "DEFICIENCY DISEASES."—The newly discovered food factors vital to the growth of bodily tissues and the maintenance of health, considered as to their properties; relative abundance in different foods; stability in canning, preserving, etc.; requirements in daily diet; relation to certain diseases and early senility. Three lectures a week. Prerequisites: none
READ.

242. QUANTITATIVE AGRICULTURAL CHEMISTRY.—General survey of chemistry in its relation to soils, fertilizers, manures, and feeding stuffs. Two lectures and two laboratory periods. Prerequisite: Chemistry 241. Winter. Fee, \$4.00. READ.

243. AGRICULTURAL CHEMISTRY AS APPLIED TO THE HOME.—A very practical course dealing with the composition and nutritive value of the more common foods and their preservation; proprietary infant foods; household remedies and disinfectants; toilet articles, and the chemistry of laundering, dyeing, and textiles. Lectures and recitations, three hours; one laboratory period. Prerequisite: Chemistry 141-143. Spring. Fee, \$2.00.
READ.

245. ANALYSIS OF FOODS. The application of quantitative methods employed in the analysis of the more common foods, and practice in testing for the presence of adulterants, preservatives and artificial coloring. Lectures and recitations two hours; laboratory six hours a week. Prerequisite: Chemistry 241. Winter. Fee, \$4.00. READ.

341. BIOCHEMISTRY. A general course dealing with the organic and inorganic compounds found in plants and animals and the chemical changes involved in such processes as metabolism and growth. Lectures and recitations four hours. Prerequisite: Organic Chemistry 242. Fall. READ.

343. PRINCIPLES OF NUTRITION. Special emphasis placed on the chemistry and physiology of carbohydrate, fat, protein and

mineral metabolism, and the energy requirements for maintenance, growth, and reproduction. Prerequisite: Chemistry 242. Fall or spring. READ, SURE.

331. CHEMISTRY OF DAIRY PRODUCTS.—The composition and complete analysis of milk, butter, cheese, and other dairy products. The chemistry of fermentation. One lecture and two laboratory periods. Prerequisite: Chemistry 241. Spring. Fee, \$3.00. READ.

342. CHEMISTRY OF INSECTICIDES AND FUNGICIDES.—The preparation, composition, and analysis of the more important insecticides and fungicides. Two lectures and two laboratory periods. Prerequisite: Chemistry 242. Fall. Fee, \$4.00. READ.

332. PLANT CHEMISTRY.—The chemistry and classification of plant constituents; the vital processes involved in growth and nutrition; and the chemistry of the manufacture of certain plant products. Three lectures and one laboratory period. Prerequisite: Chemistry 242. Winter or spring. Fee, \$3.00. READ.

431 (432) (433). AGRICULTURAL CHEMISTRY RESEARCH.—Special problems assigned to advanced students majoring in Agricultural Chemistry. Credit: one to three hours each term. READ.

AGRICULTURAL ECONOMICS

PROFESSOR KNAPP, PROFESSOR MCNAIR

This department offers courses in Agricultural Economics, Agricultural Organization, Farm Management, and Marketing. The object is to acquaint the student thoroughly with the business side of agriculture, especially the organization of the farm as a business unit and its relationship to other farms, and the business organization of agriculture both in production and marketing. It takes up questions of leases, tenantry, and other economic problems. Each subject matter course in other departments in the College of Agriculture teaches the ordinary processes of marketing each product. The Department of Agricultural Economics teaches only those subjects in marketing which are general in application. It deals with the organization, methods, principles and practices in co-operative marketing.

331 (332). AGRICULTURAL ECONOMICS.—Problems of distribution, rents, value of farm lands, farm labor and wages, rates of interest and profits in Agriculture. The organization and method of marketing farm products, the price, quotations, transportation, futures, inspection and grading, co-operative buying and selling. Fall and winter. (By arrangement with Department of Economics and Sociology, College of Arts and Sciences.) JAMISON.

531. MARKETING.—Study of the general principles of co-operative marketing and the marketing functions including classing, standardizing, assembling, storage, financing and distribution of farm products. Juniors and seniors. Fall. KNAPP.

431-432. **FARM MANAGEMENT.**—General principles of farm management, choice of farm, types of farming, farm organization and administration, factors and cost of production, records, and accounts. Lectures and problems. Also visits to farms. Fall and winter. McNAIR.

433. **ADVANCED FARM MANAGEMENT.**—Advance course in farm management, farm accounting, farm tenure, contribution of investment by landlord and tenant, distribution of receipts and expenses, leases. Lectures and problems three hours. Spring. McNAIR.

521. **EXTENSION ORGANIZATION AND METHODS.**—The history of extension work, its origin and development; general principles involved; method of organization in state and county; manner of conducting demonstrations with farmers; means of ascertaining agricultural problems and planning work on a community, county and state-wide basis; methods of approach. Winter. KNAPP.

AGRICULTURAL ENGINEERING

PROFESSOR CARTER

(Under the joint supervision of the Dean of the College of Agriculture and the Dean of the College of Engineering.)

This department offers instruction involving the application of engineering principles to farm problems. The most important of these problems are (1) the construction, adjustment, operation, and selection of modern farm implements and power machinery; (2) the drainage and terracing of farm lands; (3) the selection, operation, and installation of modern home conveniences; and (4) the study of planning and construction of sanitary and convenient farm barns, dwellings, and other buildings.

113. **GRAPHIC METHODS.**—The use of curves, charts, diagrams, and illustrations in the graphical representation of agricultural information. Actual plotting and charting is done in the laboratory. Instruction is also given in the use and care of drawing instruments; lettering and drafting, as a prerequisite to later courses. Three hours laboratory. No prerequisite. Spring. Fee, \$1.00. CARTER.

231. **FARM MACHINERY.**—**MECHANICS OF FARM MACHINES.**—Materials of construction, simple machines, transmission of power; the construction, adjustment, care and use of machines used on the farm. Two hours recitation, three hours laboratory. No prerequisite. Fall. Fee, \$1.00. CARTER.

233. **PRACTICAL FARM DRAINAGE.**—Farm drainage, including use of instruments, mapping, land descriptions; designs, location, and construction of drainage systems; soil erosion and terracing. One recitation, six hours laboratory. Prerequisites: Trigonometry and Soils. Spring. Fee, \$1.00. CARTER.

322. FARM HOME CONVENIENCES.—Sewage disposal; farm water supply; house heating; gas and electric lighting; farm light and power plants. Two recitations. No prerequisite. Winter. CARTER.

325. FARM HOME CONVENIENCES.—Similar to 322, arranged for women students. Two recitations. No prerequisite. Winter. CARTER.

331. FARM MOTORS.—Operation, care, repair, and adjustment of gas and oil engines, and their application to farm work. Carburetion, ignition, and lubrication. Two recitations, three hours laboratory. Prerequisite: Farm Machinery. Fall. Fee, \$2.00. CARTER.

333. FARM TRACTORS.—Construction, care, and repair of tractors; operation; field work; belt work; tractor investigations. One recitation, six hours laboratory. Prerequisite: Farm motors. Spring. Fee, \$2.00. CARTER.

442. FARM BUILDINGS.—Planning of farm buildings with regard to economy, appearance, conveniences, and strength. Laboratory work includes complete plans and details of some farm buildings; with material lists, cost estimates, blue prints and specifications. Two recitations, six hours laboratory. Prerequisite: Graphic Methods of Drawing. Winter. Fee, \$1.00. CARTER.

423. FARM BUILDING—CONSTRUCTION.—Materials and tests. Cement and concrete, hollow tile and brick construction. Fire-proofing; study of frame construction work; combined lecture and practice work. Two two-hour periods a week. No prerequisite. Spring. Fee, \$1.50. CARTER.

AGRONOMY

PROFESSOR NELSON, ASSOCIATE PROFESSOR SACHS, ASSISTANT PROFESSOR OSBORN, ASSISTANT PROFESSOR McCLELLAND, ASSISTANT PROFESSOR WARE, MR. AUSTIN

The courses are designed to meet the requirements of: (1) students who desire a knowledge of the subject as a part of a general education; (2) students who are interested especially in farm operations, or the management of land; (3) students who desire a technical knowledge of the subject as a preparation for teaching, or graduate or research work.

142. AGRONOMY.—Crops (cotton, corn, small grains, clovers, grasses, forage, and miscellaneous crops), including varieties, strains, quality, the use of score cards; identification of seed grasses, clovers, alfalfa, other legumes, and forage crops; weed seed, characteristic adulterants. Stress placed upon the staple crops. Lectures and recitations two hours, laboratory four hours. No prerequisite. Winter. Fee, \$1.00. McCLELLAND.

212. COTTON CLASSING.—The relative value of cotton grades and the factors that determine them, with practical exercises in

classing and stapling. Open to any student in the University in the sophomore, junior, or senior classes. Students in Agronomy 431-432 may not take this course. Winter. Fee, \$2.00. WARE.

232 (233). SOILS.—The origin, formation, physical properties, and classifications of soils; soil moisture, its movements and methods of control, drainage, tillage, checking erosion; relation of different physical properties of soil to moisture holding capacity, temperature and aeration, with special reference to soil management. Lectures, recitations, and laboratory three hours. Prerequisites: 142 and Chem. 141-143. Winter and Spring. Fee, \$2.00 each term. SACHS, AUSTIN.

322. SEED TESTING AND EXAMINATION.—The purity and quality of seeds, factors affecting germination, identification of weed seeds, use of germinators for official and for home testing. Laboratory practice two periods. Winter. McCLELLAND.

331. FARM CROPS.—A thorough study of corn, including germination tests, planting, cultivation, harvesting, storing, improvement, fertilization, rotation; station work, varieties, commercial grading, and marketing. Prerequisites: 142, 233. Fall. NELSON.

332. FARM CROPS.—The small grains, including varieties, adaptation, culture; rotation and rotation practices; crop improvement; station work; commercial grading, and marketing. Prerequisites: 142, 233. Winter. NELSON.

333. FORAGE CROPS.—Forage crops, including grasses, clovers, alfalfa, annual legumes and other forage crops; adaptation, utilization, culture, possibilities and methods of improvement; purity and germination tests; weeds and weed control. Prerequisite: 142, 233. Spring. NELSON.

345 (346). SOIL FERTILITY.—Crop requirements; nature and source of plant foods; exhaustion of soils, maintenance and increase of fertility; green manures, farm manures and commercial fertilizers; biological life of soils, with special attention to the nitrogen problem and liberation of mineral plant foods; rotations and effect of different systems of farming on productivity of the soil, based on a study of the older field experiments. Lectures, recitations, and laboratory four hours. Prerequisite: 233. Fall and winter. Fee, \$3.00 each term. SACHS, AUSTIN.

337. SOIL CLASSIFICATION.—To familiarize the student with the methods and practice of soil survey work. The important soil types with special reference to Arkansas and the South in general. Lectures and field practice three hours. Prerequisite: 232-233. Spring. Fee, \$2.00. SACHS.

321. EXPERIMENTAL METHODS.—Conception and statement of problems, planning experiments, suitable land or conditions, purpose and use of checks, possibility and probability of error. Methods of record keeping, tabulation and graphic representa-

tion of results. Fall. Prerequisites: 333, 346, 431. **McCLELLAND.**

323. JUDGING AND GRADING.—Factors determining the official grade of corn, rice, small grains, hay, and other crops. Judging of exhibition and market samples, practice in commercial grading. Spring. Laboratory practice two periods. **McCLELLAND.**

431. COTTON PRODUCTION.—An advanced course in the production of cotton. Origin, history, production, composition, and cropping systems. Practical work: the form and structure of the cotton plant and fibre, identification of various groups, and variety studies in the field. Lectures and laboratory three hours. Prerequisites: 142, 233. Fall. **WARE.**

432. COTTON HANDLING.—Continuation of 431. Cotton improvement by selection and breeding; harvesting, storing, and marketing. Laboratory work "Cotton classing" and "stapling." The government standards used for comparison in classing. Lectures and laboratory three hours. Prerequisites: 142, 233. Winter. Fee, \$3.00. **WARE.**

433. PLANT BREEDING.—The practical application of the principles of variation and heredity to the breeding of general farm crops. Special attention to the practical breeding of corn, cotton, small grains, and forage crops. Lectures and recitations four hours. Open to seniors only. Prerequisites: 331, 431, Genetics. Spring. **WARE.**

***435. ADVANCED SOIL PHYSICS.**—A study of mechanical analysis, concentration of the soil solution, soil heat, and other physical properties of the soil. Laboratory, conferences, and reports. Prerequisite: 233. Fall. Fee, \$3.00. **SACHS.**

***437. ADVANCED SOIL FERTILITY.**—A more intensive study of some of the important changes taking place in the soil, i. e., ammonification, nitrification, nitrification, sulfonation. Laboratory, conferences, and reports. Prerequisite: 346. Spring. Fee, \$4.00. **SACHS.**

***444. FIELD MANAGEMENT.**—Crop and soil adaptation, methods of tillage and their effects, effects of different types of farming. Harmful practices, balanced systems, practical rotations, use of legumes, manures, composts, and commercial fertilizers in general farm practice. Soil preservation and reclamation, corrective measures, prevention of erosion, effects of and disposal of surplus moisture, weed eradication, significance of seed selection, improved varieties, and seed breeding. Fall. Open to seniors. **NELSON.**

***421, 422, 423. RESEARCH.**—Research work in special problems designed for advanced and graduate students. One to three hours a week. Fee, \$1.00 to \$3.00 a term, according to number of hours taken. **NELSON.**

ANIMAL HUSBANDRY AND DAIRYING

PROFESSOR DVORACHEK, ASSISTANT PROFESSOR MASON, ASSISTANT PROFESSOR STOUT, ASSISTANT PROFESSOR REED, ASSISTANT PROFESSOR SANDHOUSE, MR. WILBANKS

The live stock and poultry owned by the department are used to familiarize the student with the various types and breeds. Students interested in dairying have an opportunity to study the operations in a commercial creamery run by the department.

131. JUDGING TYPES AND MARKET CLASSES.—Practice in scoring types and market classes of sheep, swine, cattle, and horses, using the score card, followed by comparative judging. Emphasis given standardization and grading in marketing live stock. Lectures and recitations one hour, laboratory six hours. No prerequisites. Fall. SANDHOUSE, MASON.

231. FARM DAIRYING.—The composition of milk, causes of variation in composition, abnormal milk and its causes, bacteria in milk products, the lactometer, Babcock testing, milk separation, farm butter making, handling dairy products on the farm, and marketing dairy products. Lectures and recitations one hour, laboratory six hours. Prerequisites: Chem. 141-143. Winter. Fee, \$3.00. MASON, WILBANKS.

232. FARM POULTRY CULTURE.—The principles of the following subjects in the order given: Breeds, housing, feeding, breeding, incubation, brooding, poultry products, diseases, management, and marketing. Lectures and recitations three hours. No prerequisites. Spring. STOUT.

351. HISTORY OF BREEDS AND PEDIGREES.—The origin, history, development, breed characteristics, and adaptation of the more important breeds of horses, beef cattle, dairy cattle, swine, and sheep. Pedigree work with prominent individuals of the various breeds. Prerequisite: 232. Fall. MASON, REED.

352. FEEDS AND FEEDING.—The principles of animal nutrition, digestibility of feeds, composition, value, and preparation of feeds; use of silos; selection of feeds for balanced rations, and the economical feeding of all classes of farm animals. Prerequisite: Ag. Chem. 241 or Chem. 242. Winter. DVORACHEK.

331. ANIMAL BREEDING.—The principles and the various systems of animal breeding; the application of the principles of genetics to practical animal breeding. Prerequisite: Genetics Bot. 341. Spring. DVORACHEK.

321. JUDGING BREED TYPES OF SHEEP AND SWINE.—Scoring and comparative judging of breed types of sheep and swine. Breed characteristics given special attention. Animals from the college herds supplemented by livestock owned by neighboring breeders used for class work. Laboratory six hours. Prerequisites: 232, 351. Winter. REED.

322. JUDGING BREED TYPES OF BEEF CATTLE AND HORSES.—Scoring and comparative judging of breed types of beef cattle

and horses. Breed characteristics given special attention. Animals from the college herds, supplemented by livestock owned by neighboring breeders used for class work. Laboratory six hours. Prerequisites: 232, 351. Spring. REED.

323. POULTRY JUDGING.—Scoring, and judging by comparison standard breeds and varieties of poultry for show room and utility. Birds from the college flocks and those entered in the Arkansas State Egg Laying Contest used for class work. Laboratory six hours. Prerequisite: 131. Winter. STOUT.

333. DAIRY STOCK JUDGING.—Scoring and comparative judging of breed types of dairy cattle. Classification of animals in the show ring. Required of students competing for place on dairy judging team. Laboratory nine hours. Prerequisites: 231, 351. Spring. MASON.

341. CREAMERY BUTTER MAKING AND ACCOUNTING.—The principles of creamery butter making; construction, care, and equipment of creameries; methods of sampling and grading cream; pasteurizing; starter making; cream ripening; creamery accounting; creamery management; and marketing of product. Lectures and recitations two hours, laboratory six hours. Prerequisite: 231. Winter. Fee, \$3.00. MASON, WILBANKS.

430. MEAT AND ITS BY-PRODUCTS.—The slaughtering and dressing of meat animals; meat cutting, curing, and utilization of meat by-products. Lectures and recitations two hours, laboratory three hours. Lectures and recitations can be taken for two credits by Home Economic students. Elective only for junior and senior students. Winter. SANDHOUSE.

450. ANIMAL PRODUCTION.—A general course in the feeding, breeding, care, and management of horses, beef cattle, swine, and sheep. The equipment necessary for practical production of animals will also be considered. Lectures and recitations four hours, laboratory three hours. Prerequisite: 352. Spring. DVORACHEK.

431. ADVANCED LIVE STOCK JUDGING.—Show ring judging of breed types and market classes of sheep, swine, beef cattle, and horses. Required of major students training for live stock judging contests. Laboratory nine hours. Prerequisites: 131, 351, 321, 322. Fall. REED.

432. LIVE STOCK PRACTICUMS.—Practice in the feeding, care, and management of live stock. Designed to train students in the handling of live stock on the farm and in the show ring. Laboratory nine hours. Prerequisites: 351, 352, 331. Spring. REED.

433. PORK PRODUCTION.—An advanced course in pork production and marketing from the standpoint of both the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and

recitations three hours. Elective only for major and graduate students. Winter. SANDHOUSE.

434. HORSE PRODUCTION.—An advanced course in horse production and marketing from the standpoint of both the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours. Elective only for major and graduate students. Winter. REED.

435. POULTRY PRODUCTION.—An advanced course in poultry production. Practical work in incubation, brooding, chick raising, and flock management. Lectures and recitations one hour. Laboratory six hours. Prerequisite: 232. Spring. Fee, \$3.00. STOUT.

436. BEEF PRODUCTION.—An advanced course in beef production and marketing from the standpoint of both the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours. Elective only for major and graduate students. Winter. REED.

437. MILK PRODUCTION.—Dairy farm management and the marketing of dairy farm products, from the standpoint of both the farmer and the special dairyman. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours. Elective only for major and graduate students. Fall. MASON.

438. MUTTON AND WOOL PRODUCTION.—An advanced course in mutton and wool production, from the standpoint both of the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours. Elective only for major and graduate students. Spring. SANDHOUSE.

439. ICE CREAM AND CHEESE MAKING.—Ice cream and ices. Preparation of materials used in their manufacture for home use and sale. Various kinds of cheeses. Cheddar cheese making and curing for home use and sale. The commercial manufacture of ice cream and cheddar cheese for retail and wholesale trade. Lectures and recitations one hour, laboratory six hours. Prerequisites: 231, 341. Winter. Fee, \$3.00. MASON, WILBANKS.

440. HANDLING POULTRY AND EGGS FOR MARKET.—Poultry fattening, dressing, storage, and shipping. Egg candling, storage, grading, packing, and handling for market. Lectures and recitations two hours. Prerequisite: 232. Fall. STOUT.

441. MARKET MILK AND DAIRY INSPECTION.—Different classes of market milk, transportation, storage, marketing, and accounting. Practice in the use of score cards for inspecting milk plants, dairy farms, and creameries. Lectures and recitations

one hour, laboratory three hours. Prerequisites: 231, Bact. 351. Spring. MASON.

422. JUDGING DAIRY PRODUCTS.—Judging market milk, butter, cheese, and other dairy products. Laboratory six hours. Prerequisite: 231. Spring. Fee, \$3.00. MASON, WILBANKS.

423 (424) (425). ANIMAL HUSBANDRY AND DAIRY RESEARCH.—Senior students majoring in Animal Husbandry or Dairying, and graduate students may, with the consent of their major professor, elect this course. Special problems assigned. Not more than two credits a term allowed. DVORACHEK.

BACTERIOLOGY AND PATHOLOGY

PROFESSOR BLEECKER

The courses in bacteriology are so arranged as to give the student an understanding of the morphology, distribution, and physiological activities of micro-organisms and their economic relation to agriculture and the home, including sanitation and public health.

351. GENERAL BACTERIOLOGY.—Elementary bacteriology so designed as to give the student an understanding of the morphology, classification, and physiological activities of bacteria. Recitation three hours and laboratory six hours a week. Prerequisites: Chemistry 242; Botany 141 and 142. Spring. Fee, \$3.00. BLEECKER.

342. THE SOILED BACTERIOLOGY.—Introductory study of the morphology, classification, and physiological activities of bacteria, yeasts, and molds is followed by a study of sanitation and the relation of these micro-organisms to the home. Recitation two hours and laboratory six hours a week. Prerequisites: Chemistry 242, Zoology 241, or Botany 141. Fall term of odd years. Fee, \$3.00. BLEECKER.

543. AGRI-CULTURAL BACTERIOLOGY.—The bacteria of the soil and water, and those of milk and milk products. Recitation two hours and laboratory four hours a week. Prerequisite: Bacteriology 351 or 342. Winter. Fee, \$5.00. BLEECKER.

544. PATHOGENIC MICROBIOLOGY.—Disease producing micro-organisms, the diseases they produce, their dissemination and control. Recitation two hours and laboratory four hours a week. Prerequisite: Bacteriology 351 or 342. Winter. Fee, \$5.00. BLEECKER.

ENTOMOLOGY

PROFESSOR BAERG, ASSOCIATE PROFESSOR ISELY

The courses are concerned with insects and their near relatives; their habits and life histories, the recognition of the more important species and groups, and the remedial and preventive measures for the forms that destroy crops, transmit disease, and annoy man and domestic animals.

131. **NATURE STUDY—ANIMAL LIFE (Zoology 137).**—(Given jointly by the Department of Zoology and the Department of Entomology.) The part of the course dealing with fishes, amphibia, reptiles, and mammals is given by the Department of Zoology; the part dealing with birds and the more common insects is given by the Department of Entomology. Intended for students interested in the out-of-doors, and those intending to teach. Lectures two hours, field trip 3-4 hours. Prerequisite: none. Spring. Fee, \$2.00. BAERG, DELLINGER.

252. **GENERAL ECONOMIC ENTOMOLOGY.**—A study of all the important orders of insects, including the common insect pests of farm, garden, and orchard, as well as the common parasites of domestic animals and the insects that annoy man. Lectures, three hours; laboratory, six hours. Prerequisite: None. Fall. Fee, \$2.50. BAERG.

333. **INSECTS AND DISEASE.**—Study of insects and other Arthropods that annoy man and animals and are concerned in the transmission of diseases. Lectures, two hours; laboratory, two hours. Prerequisites: Entomology 252, or Zoology 144, 145, and 146, or Zoology 232-243. Winter. Fee, \$2.00. BAERG.

334. **ECONOMIC ENTOMOLOGY—FRUIT AND TRUCK CROP INSECTS.**—Detailed study of life history and control of the more important insects attacking fruit and truck crops. Lectures and recitations, two hours; laboratory, two hours. Prerequisite: 252. Alternates with 335. Winter. Fee, \$2.00. ISELY.

335. **ECONOMIC ENTOMOLOGY—FIELD CROP INSECTS.**—Detailed study of the life history and control of the more important insects attacking field crops. Lectures and recitations, two hours; laboratory, two hours; credit, three hours. Prerequisite: 252. Winter. Fee, \$2.00. Alternates with 334. Not offered in 1923-24. ISELY.

336, 337. **SYSTEMATIC ENTOMOLOGY.**—The classification of insects with special reference to the more important economic groups. Laboratory, two hours for one credit hour; credit, two, three, or four hours a term. One or two terms. Winter or spring. Fee, 75 cents for each credit hour. ISELY.

338, 339. **MORPHOLOGY OF INSECTS.**—Study of the external and internal anatomy of insects. Must be preceded or accompanied by 252. One or two terms. Laboratory, six hours. Fall and winter. Fee, \$2.00 each term. BAERG.

430. **ADVANCED ECONOMIC ENTOMOLOGY.**—Methods of investigation in economic entomology, insectary technique, planning field experiments, analysis of experimental data. Lecture, one hour; laboratory and assigned reading, six hours. Prerequisites: 252 and 333, 334 or 335. Spring. Fee, \$2.00. ISELEY.

HOME ECONOMICS

PROFESSOR PALMER, ASSISTANT PROFESSOR CAVE, ASSISTANT PROFESSOR SCHMIDT, MISS PLUNKETT, MISS NELSON, MISS GWATHMEY, MISS REQUA

131, (132) (133). *ELEMENTARY CLOTHING*.—Designed to give skill in using and caring for sewing machines, in taking accurate measurements, and in adapting commercial patterns. The comparison and selection of materials for their appropriateness, as well as for their economic value. Lecture one hour and laboratory five hours each week. Art 134-136 parallel or prerequisite. Fee, 50c each term. NELSON, PLUNKETT.

134 (135). *ELEMENTARY CLOTHING*.—The same as above, but adapted to the needs of students offering an admission unit in sewing. Art 134-136 parallel or prerequisite. Fee, 50c each term. NELSON.

136 (137) (138). *FOODS*.—The principles involved in the selection and preparation of foods, with special stress on the chemistry and nutritive value of the foodstuffs. The lecture work includes manufacture and composition of commercially prepared foods; the laboratory work applies scientific principles of preparation. Lecture one hour and laboratory four hours. Parallel: Chemistry 141, 142, 143. Fee, \$5.00 each term. PLUNKETT, PALMER.

221 (222) (223). *STUDY OF COSTUME*.—The principles of design and color harmony applied to costume. A short history of costume. Lecture one hour, laboratory two hours. Prerequisite: Art 134, 135, 136. Fee, \$1.00 each term. REQUA.

227. *SURVEY OF HOME ECONOMICS LITERATURE*.—Lecture and recitation two hours a week. Winter. SCHMIDT.

235. *TEXTILES*.—The source of supply, structure, manufacture, and relative value of fabrics. Laboratory practice in weaving, in the identification of fibers, and the analysis of fabrics; special methods of laundering and dyeing. Lecture one hour, laboratory four hours a week. Prerequisites: 131-132-133; Chem. 141-142-143. Winter. Fee, \$1.00. NELSON.

234 (236). *CLOTHING ECONOMICS*.—The technique and principles of costume designing and their practical application in the design and construction of garments; the use by each student of patterns drafted by herself to her own measurements. Lectures and laboratory, six hours a week. Prerequisites: 131-132-133, Art 134-135-136. Fall and spring. Fee, \$1.00 each term. NELSON.

238. *HEALTH AND CHILD CARE*.—The fundamental principles of personal hygiene and the home care of the sick. Special consideration to the care, feeding, and training of children in the home. Lecture three hours, laboratory two hours. Spring. Fee, \$1.00. SCHMIDT.

323. **ADVANCED FOOD PREPARATION.**—An elective course for those who desire special training in the preparation of attractive dishes for each course in the meal. Two three-hour laboratory periods. Prerequisites: 136, 137, 138. Spring. Fee, \$5.00. SCHMIDT.

324. **HOUSEHOLD PROBLEMS.**—Lighting, heating, plumbing, care of equipment, and dispatching of duties in the home. A theoretical course to prepare the student for the home experience she will obtain through practice house work. Lecture, two hours. Prerequisites: 136, 137, 138. Fall. SCHMIDT.

331 (332). **FOOD ECONOMICS.** The food problems of the household, including food preservation, the cost and nutritive value of food materials, their combination in typical meals, the preparation and service of meals, and dietetic requirements of individual members of the family group. Lecture one hour, laboratory four hours. Prerequisites: 136, 137, 138. Fall and winter. Fee, \$5.00 each term. SCHMIDT.

334 (335) (336). **DIETETICS.**—The fundamental principles of human nutrition as applied to the feeding of individuals under normal conditions and under pathological conditions chiefly depending upon diet. Lecture and recitation two hours, laboratory two hours. Prerequisites: 331, 332, Zoology 241, 242, 243, Chem. 242, or Agr. Chem. 243. Fee, \$4.00 each term. PLUNKETT.

337 (338). **ADVANCED CLOTHING.**—Principles of garment construction and tailoring and their practical application in the construction of a tailored suit or coat by each student. Additional problems involving special technique. Lecture one hour and laboratory five hours a week. Prerequisites: 234, 235, 236, 221, 222, 223. Fee, \$1.00 each term. NELSON.

361. **HOUSEHOLD MANAGEMENT.** The social, economic, and practical problems of home management. The laboratory work consists of the actual care of the house and the performing of all household duties such as budget making, accounting, marketing, preparation of daily meals, and a study of their dietary value and cost. Lectures and recitations two hours, laboratory as arranged. Students live in practice house one term. Prerequisites: 324, 331, 332. Fee, living expenses borne by students. SCHMIDT.

441. **HOUSE PLANNING.**—A study of the situation, sanitation, and construction of the house and the application of the principles of design to exteriors and cost of building and maintenance. Laboratory includes the making of floor plans and elevations. Lecture two hours. Laboratory four hours. Prerequisite: Art 134, 135, 136. Fall. Fee, 50c. GWATHMEY.

442. **HOUSE FURNISHING.**—The principles of design and color applied to the interior decorating and furnishing of a home; problems in costs. Lecture, two hours; laboratory, four hours. Prerequisite: 441. Winter. Fee, 50c. GWATHMEY.

443. **SOCIAL, LEGAL, AND ECONOMIC POSITION OF WOMEN.**—A history of the development of woman's standing in the family and community; biographical study of women leaders in scientific fields; laws pertaining to women and children. Lectures and recitations four hours a week. Open to seniors. Prerequisite: Economics or Sociology. Spring. NELSON.

531. **MILLINERY.**—The designing and drafting of patterns for different types of hats, including the principles underlying their construction and trimming. A model of each type made by each student. Lecture one hour and laboratory four hours. Open to sophomores. Winter and spring. Prerequisites: 131, 132, 133 or 134, 135, and Art 134, 135, 136. Fee, \$1.00. NELSON.

511 to 541. **SPECIAL PROBLEMS.**—The student may elect some special problem in the major subject for research. Conferences with the instructor. Open to seniors and graduate students. Fall, winter, or spring. Palmer.

For Home Economics Methods (Education 341) see College of Education.

Home projects during the summer vacation will be planned in all courses where necessary to meet individual needs.

HORTICULTURE

PROFESSOR COOPER, ASSISTANT PROFESSOR RAPP

The courses offered are designed to give the student a thorough knowledge of the principles and practices of the various phases of horticulture. The work is so arranged that it will meet the needs of students interested in its practical application, or of students who desire a technical knowledge of the subject as a preparation for college teaching or research work.

Students who have had the necessary fundamental training in related subjects, and who desire to fit themselves for teachers or investigators, may receive employment during a part of their time in the laboratory and fields.

138. **VEGETABLE GARDENING.**—The general and fundamental principles of vegetable growing and the practical problems involved in handling the various crops, with special emphasis upon farm, home, and back-yard gardens. Cultural methods, with varieties, plant growing, soil and fertilizers, insect and disease control, and harvesting. Laboratory will be devoted to seed testing, hotbed construction, plant growing, and the care of student gardens. Two hours lecture, three hours laboratory. Prerequisite: Botany 141-142. Spring. Fee, \$1.00. RAPP.

231. **PRINCIPLES OF FRUIT GROWING.**—The general principles involved in propagation of fruits, planning, planting, and operating home and commercial orchards. Every phase of orcharding and fruit growing and all problems confronting the practical orchardist. Actual practice in pruning, mixing, and applying sprays, and in harvesting, packing, and storing fruit. Two hours

lecture, three hours laboratory. Prerequisites: Botany 141-142-143. Fall. Fee, \$1.00. COOPER.

330. NURSERY MANAGEMENT.—General nursery practices with fruits, ornamentals, and shade and forest trees; collecting and storing seeds, cuttings, roots and plants; transplanting and field planting. One hour lecture, six hours laboratory. Prerequisites: Botany 141-142-143. Fall. COOPER, RAPP.

331. MARKET GARDENING.—The methods of growing and handling the various trucking crops of the state, such as cantaloupes, watermelons, cucumbers, tomatoes, sweet potatoes, Irish potatoes, beans, onions, etc. Fertilizers, special cultural methods, insect and disease control, harvesting, grading, packing, storage, and refrigeration. Two hours lecture, three hours laboratory. Prerequisites: Botany 141-142-143, Horticulture 133. Fall. RAPP.

332. ORCHARD MANAGEMENT.—The cultural methods best adapted to different kinds of fruit, including types of soils, air and water drainage, soil fertility, fertilizers, cover and companion crops, and the theory and practice of pruning. Two hours lecture, three hours laboratory. Prerequisite: 231. Winter. RAPP.

333. SMALL FRUITS.—Grapes, cane fruits, and strawberries. Conducted in such a manner that the students will have thorough knowledge of how such fruits should be handled to obtain the best results from both home and commercial production. Two hours lecture, three hours laboratory. Prerequisite: 231. Spring. COOPER, RAPP.

334. FARM FORESTRY. Identification of trees and woods. Woodlot management. Log scaling and estimating timber. Selecting and marking trees for thinning. Replanting. Preserving wood. Two hours lecture, three hours laboratory. Prerequisites: Botany 141-142-143, Horticulture 330. Winter. COOPER, RAPP.

335, 336. SYSTEMATIC POMOLOGY.—The systematic classification, nomenclature, history, origin, and adaptability of each of the various fruits with practical work in judging. Two hours lecture, three hours laboratory. Prerequisites: 234, 332, 333. Fall and winter. Fee, \$2.50. COOPER.

337. LANDSCAPE GARDENING. A special study of problems in planning and planting farm, suburban, and city homes, school grounds, and streets. The students will make surveys, maps, plans, and estimates, and do the engineering work incidental to problems in landscape architecture. Two hours lecture, three hours laboratory. Prerequisites: Agricultural Engineering 113, 233. Winter. Fee, \$1.00. COOPER, RAPP.

338. PLANT MATERIALS.—To familiarize the students with trees, shrubs, vines, and flowering plants; their requirements and care; methods of growth and uses. Special attention to group-

ing from the standpoint of color, form, adaptation, etc., and for effectiveness in general and special plantings. The planning of the plantings to fit architecture of buildings and grounds is given special attention. Two hours lectures, three hours laboratory. Prerequisites: 337, Botany 141, 143. Spring. Fee, \$1.00. COOPER, RAPP.

339. POTATO PRODUCTION.—Production, handling, and storage of Irish and sweet potatoes. Two hours lecture, three hours laboratory. Prerequisite: 133. Spring. RAPP.

437. SPRAYING AND SPRAY MATERIALS.—To give a thorough practical knowledge of insecticides and fungicides and methods of application, together with practice in operating the various kinds of spraying machinery and equipment. Two hours lecture, three hours laboratory. Prerequisites: 133, 231. Spring. Fee, \$2.50. COOPER.

438. VEGETABLE FORCING.—The general and fundamental principles of vegetable forcing. Construction of forcing structures, equipment and methods of care and management. Methods of plant growing and the more important forcing crops, with emphasis on soils, fertilizers, special cultural methods, control of greenhouse insects and diseases, and systems of cropping. Two hours lecture, three hours laboratory. Prerequisites: Botany 141-142-143, Horticulture 133. Winter. Fee, \$1.00. RAPP.

441. HARVESTING AND REFRIGERATION.—The general principles in harvesting, grading, packing, storing, and shipping fruits for market. Methods of handling fruit and all the operations concerned. Storage, refrigeration, and transportation. Different orchards, packing houses, storage houses, and loading stations, will be visited, and construction, operation, and methods studied. Two hours lecture, six hours laboratory. Prerequisites: 231, 232. Fall. Fee, \$2.50. COOPER.

530. EVOLUTION OF CULTIVATED PLANTS AND PLANT BREEDING.—Organic evolution as applied to the modification of plants, particularly of cultivated fruits and vegetables, together with the history of the plants and a study of their environment and original habits. The application of genetics to breeding of horticultural crops. Two hours lecture, three hours laboratory. Prerequisites: 133-231, 335-336, Botany 341. Fee, \$1.50. COOPER, RAPP.

531. PREPARED PRODUCTS.—The manufacture, sale, and use of different products from horticultural crops, including cider and vinegar making, dessication and evaporation, canning and preserving, and the manufacture of by-products. One hour lecture, six hours laboratory. Seniors and post-graduates. Winter. Fee, \$3.00. COOPER, RAPP.

541, 542, 543. EXPERIMENTAL HORTICULTURE.—Assigned problems in horticulture, under the direct supervision of the man in charge of the particular phase of work covered; assisting in the

collection of data of experimental projects; and compiling data, bibliographies, etc. Laboratory problems, and work in experimental projects in the station fields, and at other points where experimental work is being conducted by the Department. Assigned only to students with sufficient fundamental preparation. Credit: 1-4 hours. COOPER, RAPP.

PLANT PATHOLOGY

*PROFESSOR ELLIOTT, ASSOCIATE PROFESSOR ROSEN

The courses are designed to give the student a knowledge of the origin, causes, and methods of control of plant diseases both in practical use and as a preparation for special research work in plant pathology. The advanced courses may be elected by students choosing Plant Pathology or Botany as a major.

352. PLANT DISEASES.—Diseases of plants in relation to parasites and environment; conditions inducing disease, the reaction of diseased organisms, and the methods of disease control. Lectures and recitations three hours, laboratory four hours. Prerequisite: Botany 141-143. Winter. Fee, \$3.00. ELLIOTT, ROSEN.

442. MORPHOLOGY OF FUNGI.—The forms and structure of fungi. Lectures and recitations one hour, laboratory eight hours. Prerequisites: Botany 141, 213. Fall. Fee, \$3.00. ELLIOTT, ROSEN.

443. POISONOUS AND EDIBLE FUNGI.—Identification and classification of fleshy fungi, with special attention to their edible and poisonous properties. Lectures and recitations one hour, laboratory eight hours. Prerequisite: Botany 141-143. Spring. Fee, \$3.00. ROSEN.

444. DISEASES OF FOREST TREES.—The important diseases of forest trees with special emphasis on timber rots. Lectures and recitations one hour, laboratory eight hours. Prerequisite: 352. Winter. Fee, \$3.00. ELLIOTT, ROSEN.

435, 436, 437. PLANT PATHOLOGY METHODS.—The preparation of various artificial nutrient media and the technique of isolating and culturing parasitic fungi and bacteria. Emphasis placed on bacteria in relation to plant diseases. Lectures and recitations one hour, laboratory four hours. Prerequisites: 352, Bacteriology 351. Fee, \$2.00 each term. ELLIOTT, ROSEN.

536 (537) (538). PATHOLOGICAL PLANT ANATOMY.—The structure of diseased and dead host tissues with relation to the disease producing organism. Offered only to students who choose a major in Plant Pathology or Botany, or for graduate credit. Prerequisites: 352, 442, 443. Fee, \$3.00 each term. ELLIOTT, ROSEN.

*521 (522) (523). PLANT PATHOLOGY RESEARCH.—A special

*Deceased.

problem to be assigned only to students who take Plant Pathology as a major. Prerequisite: 435-437. ELLIOTT, ROSEN.

VETERINARY SCIENCE

ASSOCIATE PROFESSOR SCHILLING

341. COMPARATIVE ANATOMY.—To give a general idea of the development and structure of the different domesticated animals during embryonic life and until maturity, so as to understand the benefits to be derived from proper breeding and care of farm animals. Prerequisite: None. Fall. SCHILLING.

332. ANIMAL PHYSIOLOGY.—To give a useful knowledge of the functions of the body in the various farm animals, so as to understand the benefits to be derived from the judicious application of proper breeding, feeding, and care of farm stock. Prerequisite: 341. Winter. SCHILLING.

333. ANIMAL DISEASES.—Infectious and non-infectious diseases, their causes, symptoms, and prevention; lameness, its causes, diagnosis, prevention and cure; obstetrics; simple surgery; State and Federal live stock regulations. Prerequisites: 341 and 332. Spring. SCHILLING.

AGRICULTURAL EXPERIMENT STATION

PURPOSE

The purpose of the Experiment Station is to determine facts, work out problems, and make investigations that have a bearing upon the agriculture of the state and the country in general. The results of investigations are published in bulletin form and distributed free. All information in possession of the various departments of the institution is available to citizens of the state upon request. The farmer is in this way relieved of the time, labor, and expense involved in working out experiments for himself. He also receives the benefit of facts that only the best trained specialists are capable of determining. Practically all of the agricultural information that we possess and put into practice is based upon experiment station efforts. The results of the Experiment Station work constitute a large part of the foundation for the work of the Division of Agricultural Extension work.

STAFF

The working staff of the Experiment Station is practically identical with the teaching force of the College of Agriculture. Members of the staff are required to do both teaching and research work in their respective fields. The work of the station

is continuous throughout the year. Research work constitutes the major burden of the staff.

The *Department of Agricultural Chemistry* carries on investigations dealing with the application of chemistry to agriculture. Its laboratories are fitted with improved modern apparatus and equipment. Its investigative work is chiefly concerned with the chemistry of soils, feedstuffs, foods, fertilizers, spray materials, and the chemistry of animal and of plant nutrition.

The *Department of Agricultural Economics* is conducting investigations, in co-operation with the United States Department of Agriculture, in systems of farming in Arkansas, farm management problems in Arkansas, labor requirements for different crops, cost of production, and similar subjects. This Department was first established in 1920. As its duties increase, other work of investigational nature, including the subject of rural organization, co-operative organizations, and marketing, will be undertaken.

The *Department of Agricultural Engineering* has just been established, the Legislature providing funds for this Department for the first time. It will investigate the subject of farm machinery, farm buildings and other structures, farm motive power (including tractors, trucks, and gasoline engines), farm drainage, terracing, and other problems.

The *Department of Agronomy* carries on investigations with farm crops, testing and breeding new and pure varieties of cotton, corn, grains, grasses for hay and pasture, clovers, and other agricultural crops. It also conducts experiments in soil fertility and the management of soils for different crops. This work is carried on at the experimental farms, the main station, and the sub-station. A special feature is the work with cotton and corn at the sub-station at Scott.

The *Department of Animal Husbandry* carries on investigations in the feeding, breeding, and management of farm animals, including poultry. Well selected herds of dairy cattle, beef cattle, and hogs are maintained for this purpose. A well equipped and well stocked poultry plant is also maintained. In connection with this department, a model dairy, equipped with improved dairy machinery and laboratories, is conducted for instructional and experimental purposes.

The *Department of Bacteriology* conducts investigations and research relative to the causes and character of animal diseases and the means of combating them.

The *Department of Entomology* conducts investigations in the life histories of insects injurious to agriculture and the methods of exterminating such insects.

The *Department of Horticulture* is equipped with grounds, machinery, and laboratories suitable for conducting experiments in fruit growing and vegetable gardening. Problems of prac-

tical importance are worked upon experimentally to aid the grower in his cultural work. Variety study of fruits and vegetables, pollination of the apple, orchard fertilization, pruning, grading, and packing are major projects for experiments in this department.

The *Department of Plant Pathology* carries on investigations of plant diseases with reference to their nature, cause of development, and means of combating and eradicating them.

The *Department of Veterinary Science* supervises state inspection for contagious diseases of animals and for the eradication of cattle tick. It operates the state serum plant and supplies serum at cost; it investigates also the best means of prevention and control of diseases of animals.

AGRICULTURAL EXTENSION DIVISION

M. T. PAYNE, *Director*.
T. ROY REID, *Executive Assistant*.
R. L. FOSTER, *Editor*.

COUNTY AGENT WORK

J. C. BARNETT, *District Agent*.
J. E. MCKELL, *District Agent*.
H. K. THATCHER, *District Agent*.
S. P. WEIGART, *District Agent*.
FORTY-TWO COUNTY AGENTS.

HOME DEMONSTRATION WORK

MISS CONNIE J. PONSLAGEL, *State Home Demonstration Agent*.
MISS ALICE BRIDGES, *District Agent*.
MISS SALLIE CHAMBERLAIN, *District Agent*.
MRS. FRANCES CROFTWOOD FOREMAN, *District Agent*.
MISS ELLA POSEY, *District Agent*.
THIRTY-THREE HOME DEMONSTRATION AGENTS.

CLUB WORK

W. J. JERNIGAN, *State Boys' and Girls' Club Agent*.

SPECIALISTS

MISS GERTRUDE CONANT, *Cookery*.
B. S. CLAYTON, *Farm Drainage*. (U. S. Dept. of Agr. co-operating.)
H. B. LANSDEN, *Poultry*.
W. H. WOODLEY, *Dairying*.
C. WOOLSEY, *Horticulture*.

A. D. McNAIR, *Farm Management*. (U. S. Dept. of Agr. co-operating.)

E. A. HODSON, *Assistant in Cotton Marketing*. (U. S. Dept. of Agr. co-operating.)

C. L. McNUTT, *Assistant in Marketing*.

GLENN F. WALLACE, *Assistant in Marketing*.

NEGRO WORKERS

H. C. RAY, *District Agent*.

MARY L. RAY, *District Agent*.

NINE LOCAL AGENTS.

NINE LOCAL HOME DEMONSTRATION AGENTS.

AGRICULTURAL EXTENSION SERVICE

PURPOSE.—The purpose of the Agricultural Extension Service is to complete the three main divisions of the College of Agriculture—resident teaching, research work, and extension work. The object of extension work is to disseminate among the people the most practical information obtainable on all subjects relating to agriculture and home economics, and to encourage the adoption by farmers of the practices recommended. One of its chief functions is to take the results of the State Experiment Station and its branches to the people and thoroughly to disseminate the information thus obtained. Agricultural Extension work deals with the problems of practical and economic production of marketing, and the organization of agriculture as a business and as a life occupation.

SOURCES OF MAINTENANCE. The Division of Agricultural Extension is supported jointly by the College of Agriculture of the University of Arkansas and the United States Department of Agriculture under the provisions of the Smith-Lever Act passed by Congress in June, 1914. In addition to the federal funds appropriated by the College of Agriculture for conducting extension work, and the state funds appropriated as an offset to the federal appropriations, the Department of Agriculture, through the State Relations Service, has allotted to the Division of Extension certain sums to be used in the furtherance of the work.

SCOPE OF WORK. The Division of Agricultural Extension endeavors to reach the maximum number of people throughout the state, and for that purpose several lines of activities are planned. Among these are the county agent work, the home demonstration agent work, boys' and girls' club work, home economics study clubs, farm meetings, marketing service, farmers' clubs, farm schools, cooking schools, curing and marketing meats, farm management, and personal instruction on the part of specialists in the various fields of agricultural study. The basis of agricultural extension work is actual practical demonstrations, since this has been found through experience to be the most

effective method. This applies also to other phases of extension work.

COUNTY AGENTS. The farm demonstration work is conducted through the organization of county agents, who are made responsible for the agricultural interests of the counties to which they are assigned, and whose duty it is to conduct demonstrations in the growing of the various farm crops adapted to the county, in the introduction, care, and management of live stock, in farm management, in marketing, in the organization of community clubs for the promotion of community betterment work, in conducting boys' corn, cotton, peanut, and pig clubs, and for the giving of instruction in any other way advisable and effective in their counties.

COUNTY HOME DEMONSTRATION AGENTS. For this work, women trained in home economics and with ability in dealing with household problems and matters affecting the home, are employed, according to the plan of the county agent's work. Their duties consist in giving instruction in those things pertaining to the welfare of the home. They organize girls' tomato and garden clubs, teach women and girls to can fruits and vegetables, organize women's home demonstration clubs, and through these organizations teach the best methods pertaining to home work. Their entire work looks to the welfare of the homemakers through giving instruction in good housekeeping.

Two-day cooking schools in home economics, where instruction in matters of great importance to the housekeeper is given, are held by specialists in this field. These schools are available to any community in the state upon request.

BOYS' AND GIRLS' CLUB. Specialists in club work are provided for the proper supervision of the boys' and girls' club work and to assist the county agents and home demonstration agents in organizing and properly developing this work. This service is designed to teach boys and girls the simplicity of ways of improving the farm and home, to open up to them a brighter view of the future, and to inspire them with the desire to remain on the farm and develop it to its fullest possibilities. This may be classed as the initial step in the teaching of agriculture in that it reaches boys and girls between the ages of ten and eighteen, before they have had the opportunity to secure such training in the schools and colleges.

SPECIALISTS. The county agents and home demonstration agents are required to serve the people on all problems, and their training, therefore, must be general. Since this prohibits a high degree of specialization, it is necessary to supply assistance through men trained in more highly specialized fields. This service to the county agents is necessary to enable them to handle some of the more difficult problems of their counties. Specialists, therefore, are supplied in livestock, soils and crops, horticulture, and home economics.

FARMERS' MEETINGS. In season it is intended that the extension service through farmers' meetings shall reach every county in the state. Special campaigns along lines of greatest importance are organized and promoted in season. This work is pushed at times when farm work is the lightest.

MARKETING SERVICE. In co-operation with the Office of Markets and Rural Organization, specialists in marketing are provided to assist farmers in securing markets for their products, and to give instruction in the most up-to-date and successful methods of handling the farmers' marketing problems. This is an educational service designed to bring the producer and the buyer into touch with each other, but the Division of Extension takes no further part in consummating sales. The marketing service goes further in that it encourages the organization of groups of farmers for the production of various products in car-load lots, and gives instruction in the proper grading and packing of fruits and other farm products. The marketing of any farm product will be included in the activities of this sphere of extension work.

LIVESTOCK INTRODUCTION. Because of certain economic factors not under control, the class of livestock in Arkansas has been decidedly poor. With the control of the distributing factors, the necessity arose for the introduction of pure-bred breeding stock. The livestock specialists have turned their attention to that matter and through special organization work in many counties have introduced many carloads of good breeding stock, and through farmers' meetings, the press, and otherwise, have developed a strong sentiment in favor of this work. The boys' pig club work is one of the greatest factors in the introduction of pure-bred hogs.

FARM MANAGEMENT. Preliminary surveys of farms in some sections of the state have shown that the profits are far from what they should be. Farm management studies naturally should be one of the foremost in agricultural teaching. Proper investigation of farm management conditions and the teaching of the best methods of farm management are of utmost importance. This work is provided for through the employment of a specialist in farm management.

DRAINAGE AND TERRACING. In co-operation with the United States Department of Agriculture, a specialist is furnished for the purpose of assisting farmers with their problems of drainage by open ditches, tile drainage, and similar methods, as well as by the direction, maintenance, and handling of terraces to prevent washing of hillsides.

AGRICULTURAL NEWS SERVICE. Agricultural facts must be placed before the people. The co-operation of the press is utilized by supplying to the three hundred twenty-five papers of the state weekly paragraphs on better farming. Special articles dealing with seasonal topics are prepared for the county papers.

Special articles for the daily papers of the state are prepared in order that facts may be brought before a large number of people. Further than this, the Division of Extension issues publications from time to time which are available to the people of the state upon application.

SUMMER TERM

The twelfth summer term of the University will open June 18, 1923, and close July 28, 1923.

The attendance on the University Summer School now almost touches one thousand—a larger number than is found in the average summer school in the United States. The report of the United States Commissioner of Education shows that the cost of attending the session was only slightly more than two-thirds of the cost of attending such a summer session in the average schools of like grade.

Courses in preparatory and college subjects will be offered by a faculty composed almost wholly either of heads of departments in the various faculties of the University, or of experts of recognized ability from other states. A model school will be conducted for the demonstration of the best methods of teaching in the primary and grammar grades. The University Training High School will be in session and will be in the hands of some of the best superintendents of schools in Arkansas. One unit of entrance credit may be secured by attending the summer school. A limited amount of practice teaching can be done. Several experts in Rural School Methods and Management, Plays and Games, Public School Music, Industrial Work for the Grades, and other such courses have been secured so that the University will offer a number of complete courses especially designed to meet the needs of rural teachers.

Courses completed in the summer term will be credited toward a degree, providing that entrance requirements have been met. Ten term hours is the maximum that may be earned at any one session. It should be noted that by attending several summer terms a student's college course may be shortened to three or three and a half years.

Courses for freshmen in all of the four colleges of the University (Arts and Sciences, Agriculture, Education, or Engineering), will be offered, and graduates of high schools are particularly urged to begin their college work in June instead of September. Courses will be offered this summer in all three phases of Smith-Hughes work in vocational education, namely, in agriculture, home economics, and in industrial arts.

All the facilities of the College of Agriculture and of the state experiment station are open to the Smith-Hughes men in agricultural education, and all the men teaching these courses

in the high schools of the state are required to attend by the federal government.

Each year sees an increasing number of courses offered for graduate study. Several students have completed the required work for their Master's degree by summer work.

More detailed information in regard to the courses offered, matriculation, and registration, may be had from the Summer Term Bulletin, which will be sent upon request. Address requests for information to the Director of Summer School, University of Arkansas, Fayetteville, Arkansas.

SCHOOL OF MEDICINE

HISTORY

The School of Medicine was organized at Little Rock in 1879. In 1911 it was consolidated with the College of Physicians and Surgeons, and by an Act of the General Assembly became the School of Medicine of the University of Arkansas.

ADMISSION

Admission requires a four-year high school education, and, in addition, two years of college work as set forth below.

HIGH SCHOOL REQUIREMENTS

Four years' work in an accredited high school or its full equivalent, comprising not less than fifteen Carnegie units* in acceptable subjects, including prescribed work as follows:

English	3 units
Algebra	1 unit
Plane Geometry.....	1 unit
Latin, Greek, French, German or other foreign language	2 units
(Both units in the same language.)	
History	1 unit
Electives	7 units

Total.....15 units

Deficiencies in any of the above described high school work may be made up by extra college work in the same subjects.

COLLEGIATE REQUIREMENTS

Two years' work in a recognized college or university, comprising not less than sixty semester hours, including prescribed subjects, as follows:

*A unit in a subject is the credit value of work in that subject for four recitation periods per week for thirty-six weeks. Each recitation period must be at least forty minutes in length.

Chemistry (See Note A).....	12	semester hours†
Physics (See Note B).....	8	" "
Biology (See Note C).....	8	" "
English (See Note D).....	6	" "
Electives (See Notes E and F).....	26	" "
Total	60	" "

NOTE A. CHEMISTRY.—Of the twelve hours at least eight semester hours must be in general inorganic chemistry, and at least four semester hours must be laboratory work. The remainder must include organic chemistry.

NOTE B. PHYSICS.—At least two of these eight semester hours must consist of laboratory work. It is recommended that this course be preceded by a term in trigonometry.

NOTE C. BIOLOGY.—At least four of the eight semester hours must be laboratory work. This requirement may be satisfied by eight semester hours in either general biology or zoology, or by courses of four semester hours each in zoology and botany; but not by work in botany alone.

NOTE D. ENGLISH.—The usual introductory college course of six semester hours in English composition and literature or its equivalent is required.

NOTE E. FRENCH, SPANISH, ITALIAN OR GERMAN.—French is preferred, and students are strongly urged to secure a reading knowledge of this language. This will ordinarily require at least two years' work in the high school, followed by at least six semester hours' work in the same language in college, or two years' work (at least twelve semester hours) if the language was not begun in the high school.

NOTE F. ELECTIVES.—As desirable electives, the following subjects are suggested: Additional English; chemistry; zoology; psychology; an additional modern language; economics; college algebra and trigonometry; sociology; history; political science; logic; Latin; Greek; drawing.

CONDITIONS NOT PERMITTED

No substitutes are allowed for the above prescribed subjects.

No entrance conditions are permitted.

Candidates for admission who, in June, 1923, have completed the above requirements with the exception of a few hours of college subjects, should plan to make up their deficiencies by attendance at a summer session during the summer of 1923.

† A semester hour is the work represented by one class period per week for half of the college year (at least thirty-two weeks). Each laboratory period to be so evaluated must extend over at least two hours.

COURSE OF STUDY

The School of Medicine offers a four-year course leading to the degree of *Doctor of Medicine* (M. D.).

The candidate must meet the entrance, residence, and registration requirements; must be twenty-one years of age; and must present satisfactory evidence of good moral character. The candidate must have attended and satisfactorily completed four courses of lectures, no two of which shall have been attended in the same calendar year. Three years of the required work may have been done in some other medical college of recognized standing whose requirements are equivalent to those of this college. The senior year must be done in residence at this college.

The School of Medicine will grant the degree of *Bachelor of Science in Medicine* (B. S.) to students who have complied with the following requirements:

1. The student must have completed two full years of work leading to the bachelor's degree in the University of Arkansas or some other standard college or university, maintaining an entrance requirement of not less than fourteen standard high school units and requiring not less than sixteen hours of recitations and lectures per week in the college course.

2. The student must have included in his two years of preliminary college work on all subjects required for entrance to the first year of the School of Medicine of the University of Arkansas.

3. The student must have completed all of the work in the first two years of the medical course in the School of Medicine of the University of Arkansas.

4. This degree shall not be conferred upon any except persons who are at the present time students in the School of Medicine of the University of Arkansas or upon those who shall enter that college hereafter.

FEES AND EXPENSES

Tuition Fee, per annum.....\$50.00

There are no other fees, but a ten dollar deposit to cover breakage is required. After the necessary deductions, the balance of the deposit is refunded.

Board and lodging, including fuel and lights, may be had at a cost of eight to ten dollars a week, or of thirty-two to forty dollars a month.

BUILDINGS AND EQUIPMENT

The main building, erected in 1890, is a three-story brick structure containing a lecture hall, amphitheatre, museum, dissecting room, and laboratories. A second building, occupied

chiefly by laboratories, has been outgrown, and the old state capitol is used for laboratories of chemistry, embryology, histology, physiology, pathology, bacteriology, clinical microscopy, surgical pathology, and pharmacology. These laboratories are well equipped with new apparatus and supplies. The space is ample and the rooms are well lighted.

HOSPITAL AND CLINICAL FACILITIES

Coincident with the restoration of the course in clinical instruction, the Trustees perfected a close affiliation between the School of Medicine and the four leading general hospitals of the city, in each of which clinical teaching is done by members of the faculty. By this arrangement more than five hundred beds will become available for clinical teaching.

The *Little Rock General Hospital* is under active process of construction and its one hundred and fifty beds will be available for teaching at the beginning of the next session.

The *Baptist General Hospital* is rapidly nearing completion and its staff will be composed largely of members of the faculty.

St. Vincent's Infirmary, one of the oldest hospitals in the state, and the largest at present, is affiliated with the School and will continue to furnish material for clinical instruction. It has a bed capacity of two hundred and fifty.

St. Luke's Hospital, with a bed capacity of seventy-five, is one of the affiliated hospitals and its entire staff is made up of members of the faculty of this School.

The above four hospitals have a representative on the administrative board of the School, through which the School and the hospitals are kept in harmonious correlation.

Isaac Folsom Clinic. This clinic was named in honor of the late Dr. Isaac Folsom, in consideration of his gift of an endowment of \$20,000. This clinic is under the direct and exclusive control of the faculty, and all its material is available for teaching purposes.

State Institutions. All the eleemosynary institutions of the state are situated in Little Rock. These include the School for the Blind, the School for Deaf Mutes, the State Hospital for Nervous Diseases, the Penitentiary, the Reform School, County and City Hospitals, all of which contribute to the available clinical material.

HOSPITAL APPOINTMENTS

The following hospital appointments are made annually: Logan H. Roots Memorial Hospital, two resident physicians; University Hospital, two resident physicians; Pulaski County Hospital, four internes; State Hospital for Nervous Diseases, ten internes. Appointments are made by competitive examinations open to graduates of the School of Medicine.

ANNOUNCEMENT

For further information in regard to the School of Medicine, address the Dean of the School of Medicine, University of Arkansas, Little Rock, Arkansas.

AGRICULTURAL, MECHANICAL,
AND NORMAL SCHOOL

HISTORY

The Agricultural, Mechanical, and Normal School is situated at Pine Bluff, Arkansas. It was established pursuant to an Act of the General Assembly of Arkansas, April 27, 1873, and has been in operation since 1875.

Its purpose is to provide industrial education and to train teachers for efficient service in the colored public schools of the state.

BUILDINGS AND EQUIPMENT

The school property consists of twenty acres of land in the western suburbs of Pine Bluff.

The buildings include a two-story school building, containing an assembly hall; well equipped mechanical shops; a dormitory for women; a dormitory for men; a primary training school; and a girls' two-story home economics building.

ADMISSION

Candidates for admission must be at least fifteen years of age, and must pass a satisfactory examination in arithmetic, English grammar, geography, and United States History, such as is covered in the seventh grade. Those coming from other schools must furnish evidence of satisfactory deportment and class standing.

COURSES OF STUDY

Preparatory Department. In the preparatory department the foundation academic subjects are studied. The work corresponds to that of the eighth grade in the public schools.

Normal Department. The purpose of the normal department is to prepare students for teaching. Admission is based upon the completion of the preparatory course. Students who pass the prescribed course of study satisfactorily will be awarded a teacher's certificate.

Industrial Department. Beginning with the second year in the preparatory department, all students are required to pursue certain industrial courses. The industrial work extends through

four years and the completion of the work is attested by a certificate of efficiency.

Young men do shop work in mechanic arts, carpentry, and cabinet making and have the opportunity to become skilled auto mechanics, blacksmiths, machinists, engineers, or firemen.

Young women are taught plain sewing, cutting and fitting, art needlework, cooking, and millinery.

Agricultural Department. In this department two courses of study are offered, one designed especially for students who are preparing to teach in the public schools, and a second course, for those who wish to specialize in agriculture. The latter course includes work in agronomy, farm economics, and kindred subjects.

FEES AND EXPENSES

Matriculation Fee (paid annually by all students)	\$10.00
Dormitory Fee (including board, fuel, and light, paid by all women students at the beginning of each month)	12.00
Student Activity Fee (paid by all students at the begin- ning of the year).....	3.00

ANNOUNCEMENT

For further information in regard to the Agricultural, Mechanical, and Normal School, address the Superintendent, Agricultural, Mechanical, and Normal School, Pine Bluff, Arkansas.

DEGREES, DIPLOMAS, AND CERTIFICATES--1922

DEGREES

MASTER OF ARTS

Mabel Webb

Robert Clifton Robinson

MASTER OF SCIENCE

Kate Campbell

Ira Charles Swanman

MECHANICAL ENGINEER

Julius Clark Moody

ELECTRICAL ENGINEER

Philip X. Rice

BACHELOR OF ARTS

Spencer Delancey Albright, Jr.
Lela Viola Barton
Stonewall Jackson Beauchamp, Jr.
Dorothy Miller Black
Mary E. Carruth
Clyde Ferdinand Gay
Mathilde Goodwin
Lida Higgs
Helen Masberne Hudgins
Waldersee Hendrey
Hurley Gregg Hust
Charles Dewey Jamerson
Anna Christine Joiner

Robert A. Leflar
Bryan L. Milburn
Genevieve B. Philbeck
Frank Welborn Pickel, Jr.
Davis Payne Richardson
Fount Richardson
Robert Clifton Robinson
Lois Virginia Rodgers
James Edgar Rutherford
Catherine M. Smith
Helen Margery Waters
Glaphyra Wilkerson
Frances Lucille Wilson

BACHELOR OF SCIENCE IN EDUCATION

Margaret Amelia Bates
George Francis Blodgett
Ruby Frances Coffey
Crichton Dee Cox

Merle Estes Ford
Mildred Katherine Thompson
Otis Carroll Trimble
Ray Webb

BACHELOR OF SCIENCE IN CHEMISTRY

Truman Nicholas Morris

BACHELOR OF CHEMICAL ENGINEERING

Sterling Brown Hendricks
Calvin Hartin McDaniel

Nathaniel Leonard Shepard

BACHELOR OF CIVIL ENGINEERING

Thomas Elbert Alford
Ardis Smith

Carl William Smith

BACHELOR OF ELECTRICAL ENGINEERING

Louis E. Albritton
Russell Howard Joerdan

Hall Fletcher Minnis
John Ardee Thompson

BACHELOR OF MECHANICAL ENGINEERING

William M. Brewer
Robert Jewell Horn

Sam Jory

BACHELOR OF SCIENCE IN AGRICULTURE

Zachary Herman Calhoun
Alfred Clay Hale
Richard Henry Holderby
Marvin Dickson Johnson

Benjamin Aplin Lincoln
Richard Cameron Rankin
William Freeman Scarborough
Dewey Schley Thomason

BACHELOR OF SCIENCE IN HOME ECONOMICS

Lucy Bennett
Mac Isabel Blakely
Zelia Belle Burke
Opal Lillian Davis

Marguerite Coleman Horn
Erna Huenefeld
Mary Elinor Johnson
Carrie May Wilson

CERTIFICATES

TWO-YEAR TEACHER'S COURSE

Spencer Delancey Albright, Jr.
Margaret Ellen Askew
Lela Viola Barton
Wilma Nettleship Basore
Lucy Theresa Bassett
Lois Leslye Black
Lucille Brand
George Francis Blodgett
Fred Boyd
Macie Boyd
Mary Esther Branscum
Mazillah Brown
Grace Dorothy Bryant
Mary E. Carruth
Edna Fay Carpenter
Mildred Eugenia Carter
Eula Clark
Jessie Ray Cobb
Walter Cecil Collum
Melba Elmira Dixon
Dorcas Catherine Ferguson
Rozella Mary Fietz
Beatrice Senith Garrett
E. Pauline Golden
Mathilde Goodwin
Dorothy Gregson
Mary Agnes Hawn

Mary Elizabeth Hays
Eunice Witter Hefelfinger
Eva Stuart Johnson
Mac J. Karsten
Margarette Thelma Kitchens
Dorothy Dee Knerr
Ruth Kuhnert
Grace Ula Mehaffy
Mona Malone
John Eber Manning
Mary Grace Paddock
Lois Virginia Rodgers
Shelley Sanderson
William Jacob Schoonover
Lucy Strickland
Garland A. Stubblefield
Berrie A. Taylor
Marion M. Thornberry
Cora Velvin
Vera Voesta
Virginia Middleton Wilkinson
Frances Lucile Wilson
Lois Clarke Winters
Ruth Wolf
Frances Aurora Woodruff
Juanita Delph Woodson

TWO-YEAR TEACHER'S COURSE IN HOME ECONOMICS

Zealia Belle Burke
Opal Lillian Davis
Marguerite Coleman Horn

Mary Elinor Johnson
Carrie Mae Wilson

DIPLOMA IN PIANOFORTE

Ruth Wolf
Francis MacDougall

Dorothy Alice Van Hook

CERTIFICATE IN PIANOFORTE

Mary D. Bratton
Marguerite Hammond McAdams

Lin Neill White

*TWO-YEAR COURSE IN ELECTRICAL
ENGINEERING*

Elmer Austin Daniels

John Glenn Newton

HONORS

GRADUATION HONORS

Clyde Ferdinand Gay
Lela Viola Barton
Mary Elinor Johnson
Sterling Brown Hendricks

Anna Christine Joiner
Marguerite Coleman Horn
Louis E. Albritton

CLASS HONORS

Clyde Ferdinand Gay
Dorothy Miller Black
Mary Elinor Johnson
Lela Viola Barton
Spencer Delancey Albright, Jr.
Sam Jory

Anna Christine Joiner
Catherine Mary Smith
Sterling Brown Hendricks
Robert A. Leflar
Louis E. Albritton
Robert Clifton Robinson

DEPARTMENTAL HONORS

English

Dorothy Miller Black (first)
Clyde Ferdinand Gay (second)
Robert A. Leflar (third)

Romance Languages

Helen Mary Waters (first)
Clyde Ferdinand Gay (second)

Electrical Engineering

Louis E. Albritton (first)

Military Science and

Tactics

Clyde Ferdinand Gay (first)

Mathematics

Sterling Brown Hendricks (first)
Carl William Smith (second)
Louis E. Albritton (third)

Civil Engineering

Carl William Smith (first)

Economics

James Edgar Rutherford
Clyde Ferdinand Gay

Home Economics

Mary Elinor Johnson (first)
Marguerite Coleman Horn (second)
Lela Huebelsch (third)

Animal Husbandry

Richard Cameron Rankin (first)

Botany

Lela Viola Barton (first)

History and Political

Science

Robert Clifton Robinson (first)

Horticulture

Clara Orville Randall (first)

Chemistry

Sterling Brown Hendricks (first)

SCHOLARSHIPS

DEPARTMENTAL SCHOLARS

1922-1923

Animal Husbandry and Dairying.....	H. P. Moffitt
Chemistry	H. L. McMullin
Economics and Sociology.....	Bunn Bell

LIST OF STUDENTS

165

Education.....	C. C. Colvert
English.....	Thelma Pickens
History and Political Science.....	E. D. Parrish
Psychology and Philosophy.....	Irene Richardson
Zoology.....	Carl Rosenbaum

UNIVERSITY SCHOLARS

1922-1923

Hugh Boggs.....	Fayetteville
Tom Cantrell.....	McGehee
Ben Coonfield.....	Springdale
Dorothy Golden.....	Marianna
Edwin P. Hicks.....	Greenwood
James Horsfall.....	4th Dist. Agr. School
Genevieve Kindley.....	Gravette
Ora McGehee.....	Piggott
Leo Murphy.....	Junction City
Vernon Paul.....	Earle
Frances Potter.....	Warren
Estelle Reagan.....	Huttig
Linn L. Sharp.....	University (Fayetteville)
Harry Wood.....	Mammoth Spring

LIST OF STUDENTS

GRADUATE STUDENTS

Name and Degree	Home Address
Armstrong, A. B. B. A., University of Arkansas.....	Wynne
Bart, Loy Edgar, B. E. E., University of Arkansas.....	Fayetteville
Bocquin, Clara Baskin, B. S. E., University of Arkansas.....	Wheeler
Ellis, James Ferdinand, B. A., Southeast Missouri State Teachers' Col- lege.....	Fayetteville
Ellis, Henry Fred, B. S. A., University of Arkansas.....	Atkins
Green, Ivan H., B. A., Henry Kendall College.....	Fayetteville
Harold, Elwyn Bartley, B. A., Westminster College.....	Beebe
Jackson, Zeola Burke, B. S. H. E., University of Arkansas.....	Fayetteville
Pickens, Thelma, B. A., Arkansas College.....	Batesville
Shinn, Darrell, B. S. E., University of Arkansas.....	Harrison
Walt, Mabel, B. A., University of Arkansas.....	Fayetteville

UNDERGRADUATE STUDENTS

EXPLANATION OF ABBREVIATIONS

A.....	College of Arts and Sciences
Ag.....	College of Agriculture
ATC.....	Agri. Trade Course
E.....	College of Engineering
I.....	College of Education
F.....	Freshman
So.....	Sophomore
J.....	Junior
Se.....	Senior
Sp.....	Special
T.....	Trade Course

Name	Course	Home Address
Abraham, Erma Christine.....	A-F	Cashion, Okla.
Abington, Tom Eugene.....	A-F	Beebe
Adams, Morris.....	A-F	Texarkana
Adams, Robert Harnell.....	Ag-F	Newark

Name	Course	Home Address
Adams, Rolla Perry	A-F	Selma, La.
Adams, Roy Hamilton	E-T	Muskogee, Okla.
Adams, Ward Hogan	A-So	Springdale
Adkins, Brown Ancil	A-F	Bald Knob
Agee, Harry Lee	A-So	Paragould
Alder, Zula Buchanan	Ed-So	Fayetteville
Allen, William E.	ATC	Mansfield
Akin, Bess	A-F	Fouke
Albert, Lila May	A-F	Harrisonville, Mo.
Alder, Louis B.	Ed-Jr	Fayetteville
Alexander, Alma	Ag-Sr	Jonesboro
Allen, Loraine	A-F	Little Rock
Alley, Granville Mason	A-F	El Dorado
Alley, Pauline Sara	A-F	El Dorado
Allred, Ernest G.	E-T	Pottsville
Alston, Irl	E-T	Checotah, Okla.
Amis, William	A-Sr	Fordyce
Ananos, Raul Alfredo	A-So	Ayacucho, Peru
Anderson, Elmer John	E-T	Louann
Anderson, Geneva Rose	Ag-F	Fayetteville
Anderson, James Hayden	E-F	Fort Smith
Anderson, Wade B.	A-F	Huntsville
Andrews, Mary Olive	Ag-F	Cotton Plant
Angus, Robert Morton	Ag-F	Fayetteville
Armstrong, Minnie Ruth	A-F	Fort Smith
Arnold, Henry Duff	A-F	Claremore, Okla.
Arrington, Newt Loyce	A-Sp	Jonesboro
Askew, Ben Reynolds	E-Sr	Fayetteville
Askew, Margaret Ellen	Ed-J	Fayetteville
Atkins, Edward Carl	Ag-J	Chidester
Atkinson, Mary Alizra	Ag-J	Berryville
Atkinson, Minnie Clare	Ed-So	Berryville
Atway, Walter Talbert	E-F	Swifton
Ault, Dean Douglas	E-J	Donaldson
Austin, Raymond Albert	E-F	Gravette
Avery, Arthur Benjamin	E-So	Lake Village
Baber, Aubrey Van Cleve	E-J	Siloam Springs
Baber, Lulah Gretchen	A-F	Siloam Springs
Bagby, Herman Carlton	Ed-F	Pine Bluff
Baggett, John Bennett	A-F	Prairie Grove
Baggett, Marie	Ed-F	Prairie Grove
Bain, Melvin Herman	E-T	Slaton, Tex.
Baker, Ruth	A-F	Homer, La.
Baker, Sarah Jane	A-F	Farmington
Baker, Vera Ette	Ed-F	Gentry
Baldwin, Susie Rolyne	A-F	Rogers
Ballenger, Irby Baxter	A-So	Rover
Bandeen, Florence Jean	Ed-F	Fayetteville
Barkemeyer, George August	E-T	Greenway
Barnett, Elizabeth M.	Ed-So	Pangburn
Barnett, Helen Frances	Ed-So	Fayetteville
Barrett, Edward Rush	A-So	Bunney
Barron, Mattie L.	Ed-J	Fayetteville
Barrows, Ruth Jessie	Ag-F	Fayetteville
Basore, George Marion	E-Sr	Berryville
Bassett, Lucy Theresa	Ed-Sr	Fayetteville
Bates, Frances	Ag-F	Fayetteville
Bates, Lucille	Ag-F	Fayetteville
Bates, Thurman	A-F	Benton
Batjer, Margaret Quay	Ag-J	Rogers
Beardslee, Kathleen	Ag-F	Little Rock
Beasley, Edward C.	E-Sp	Texarkana
Beasley, James Samuel	A-F	Texarkana

LIST OF STUDENTS

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Name	Course	Home Address
Beasley, Roy Basel	Ed-T	El Dorado, Ill.
Beck, Dorothy Grace	A-F	Fort Smith
Beck, Samuel Milton	A-So	Ashdown
Beck, Sam Lynn	A-F	Paris, Tex.
Bell, Bunn McFadden	A-Sr	Fayetteville
Bell, Jimmie Myrtle	Ag-F	Mena
Benbrook, Orren Thurl	A-F	Rogers
Bennett, Charles Otho	E-So	Fayetteville
Benson, Virginia Lee	Ed-So	Siloam Springs
Berry, Homer Lester	Ed-So	Carlisle
Berry, Irma Lee	A-F	Fayetteville
Berry, Lois Katheryn	Ag-J	Fayetteville
Betts, James Harvey	Ag-Sp	Hope
Beuchman, George S.	E-F	Brinkley
Beuchman, William T.	E-T	Springdale
Bey, James Oscar	E-T	Kellyville, Okla.
Bird, Hazel	Ed-So	Waldron
Black, Norine	Ed-So	Booneville
Blackburn, Clifford S.	A-So	Danville
Blackburn, Katherine	Ag-J	Prairie Grove
Blackburn, Mildred	Ed-F	Prairie Grove
Blackman, Lynn Allen	E-So	Fayetteville
Blackstone, Lora Erine	E-F	Piggott
Blair, William Adams	E-T	Enterprise, Okla.
Blake, Joel Welborn	E-J	Wagoner, Okla.
Blair, L. Lucille	A-Sr	DeValls Bluff
Bliss, Ruth E.	Ag-F	Fayetteville
Bliss, Virginia	Ag-J	Fayetteville
Blood, Reuben	E-F	Fayetteville
Boatright, Robert G.	ATC	Van Buren
Bocquin, Mary Emma	Ag-So	Fort Smith
Bogert, Julia	A-F	Fayetteville
Boggs, Hugh McAndrew	A-F	Fayetteville
Boggs, John Cass	E-So	Little Rock
Boggs, Joe Craig	A-Sp	Jonesboro
Boggs, John Young	A-So	Fort Smith
Booker, Jack Watson	E-Sr	Fort Smith
Borger, Harry B.	ATC	LeFlore, Okla.
Bossemyer, James Lee	Ag-Sr	Fayetteville
Bowden, George I.	A-F	Pine Bluff
Bowman, Claude E.	E-J	Newport
Bowman, George Fred	E-F	Rogers
Box, Nina Merrill	Ag-F	Neosho, Mo.
Boyce, Helen	A-F	Texarkana
Boyd, B. Degen	E-So	Hartford
Boyd, Macie	Ed-J	Fayetteville
Boyd, Mary Turley	Ag-F	Fayetteville
Bracey, Carol Eugenia	Ed-So	Little Rock
Bradley, Filmore Eugene	A-F	Jonesboro
Branch, Sam Houston	Ed-So	Branch
Branch, John Oscar	A-F	Berryville
Braswell, Ray	E-F	Little Rock
Brazzell, Carrie Marion	E-F	Warren
Brewer, Joseph Edgar	E-T	Collinsville, Tex.
Brewster, Marguerite	E-Sr	Pine Bluff
Brown, Ophelia Elizabeth	E-F	Pine Bluff
Briggs, Bryant H.	A-F	Booneville
Briggs, Mac	E-Sp	Danville
Brinacombe, Stuart Homer	E-F	Little Rock
Brinacombe, Jeanette	Ed-J	Fayetteville
Brown, Allen Gray	A-J	Moro
Brown, John Grover	E-F	Rogers
Browne, Charles Albert, Jr.	A-F	Fayetteville
Brooks, Charles S.	E-T	Bedias, Tex.

Name	Course	Home Address
Brown, Gordon R.	Ag-F	Scott
Brown, Hurley Wilbur	A-F	Fayetteville
Brown, Jesse E.	E-T	Ravenden
Brown, Lucille Corinne	Ag-So	Piggott
Brown, Orbie Anderson	A-So	Amity
Brown, Paul Gaylon	E-F	Piggott
Buchanan, Raymond Moore	E-F	Clovis, N. M.
Buck, Lloyd Guy	E-F	Magnolia
Buckner, Tom R.	E-T	Rochester, Tex.
Buckley, Mary Lydia	Ag-So	Carlisle
Buerkle, Emma Martha	A-J	Stuttgart
Bullock, Josephine Mildred	A-F	Bentonville
Bunch, Charles Samstag	Ag-So	Waldstein
Bunch, Mildred Van Balkenburgh	Ag-F	Waldstein
Bunker, Nelson French	E-F	Lake Village
Burke, Ollie David	Ag-F	Rogers
Burks, Carrie May	E-F	Monticello
Burlingame, Joe T.	E-F	Ashdown
Burnett, Russell Alfred	A-F	Paragould
Burns, Coleman D.	Ag-So	New York City
Burns, Jeanne A.	A-F	Jonesboro
Burnside, Frank Hunt	E-F	Hillsboro
Dushey, George Gordon	E-So	McGehee
Butler, Frank Hudson	A-F	Porter, Okla.
Byers, Uriel E.	E-T	Bridgeport, Tex.
Byrd, Sam	Ed-J	Fayetteville
Byrnes, Mildred Louise	A-F	Meridian, Miss.
Caldwell, Guy Stanley	A-F	Paris, Tex.
Camp, Alonzo DeAllyion	Ed-J	Patmos
Campbell, Marcelline	A-J	Fayetteville
Campbell, Marion Elizabeth	A-J	Fayetteville
Campbell, Roberta	A-F	Little Rock
Cantrell, John Thomas	E-F	McGehee
Cantrell, Seldon Jay	E-T	Blue Ridge, Tex.
Carleton, Gladys Lorena	A-F	Fayetteville
Carney, William	A-So	Rudy
Carr, Robert Wheeler	E-T	Booneville
Carruth, Margaret Elizabeth	A-F	Little Rock
Carruth, Paul Fealy	Ag-So	Ursula
Carter, Claudia Heath	Ag-J	Fayetteville
Carter, Willard Scott	E-So	Fayetteville
Chambers, Claude Lawrence	E-T	Jacksonville, Tex.
Chambless, Horace K.	E-T	Oak Grove, La.
Champion, Amelia Mary	Ag-F	Gillett
Chandler, Florence Clyde	Ed-Sr	Fayetteville
Chandler, Gwendolyn Presley	A-F	Springdale
Chaney, Lowell Everett	A-F	Fayetteville
Christian, James Reed	A-I	Fayetteville
Chapman, Robert E.	A-F	Oden
Chappelle, William Rolf	A-F	Mt. Pleasant
Cherry, Blanche	A-Sr	Paris
Cherry, Marie	A-F	Paris
Childs, Marion Camille	Ed-F	Banks
Chrastek, Cyril	E-T	Oklahoma City, Okla.
Christian, Carroll Dodson	Ag-I	Springdale
Christian, Harry Percy	E-So	Hot Springs
Ciasnocha, Thomas	E-T	Buffalo, N. Y.
Clark, Alfred L.	E-F	Calico Rock
Clark, Howard Rupert	E-Sr	Springdale
Clark, Hugh Thomas	A-F	Little Rock
Clark, James Jerome	E-T	Fordyce
Clark, Lillian	A-F	Fort Smith
Clark, Mary Luella	A-Sp	Ireland, Tex.
Clark, Ruth Margaret	A-F	Jenny Lind

Name	Course	Home Address
Clark, Sabasker O'Farrell	Ag-F	Fordyce
Clayton, Chester Schley	A-Sp	Hardy
Clayton, Walker Beverly	A-F	Hardy
Clemmer, Franklin	A-F	Gentry
Clendenning, Burt	A-F	Fort Smith
Cleveland, William Porter	F-Sr	Pine Bluff
Cliett, Travis Thomas	E-F	Fort Smith
Cobb, Tom	A-F	Bentonville
Cochran, Henry	Ag-So	Russellville
Coe, Helen	Ag-F	Fayetteville
Coker, Fred Elbert	E-F	Monticello
Coker, Walter Ervin	E-F	Greenwood
Colcleasure, Harvey Clayton	E-T	Elkins
Cole, Marion Wicks	A-So	Wilson
Cole, Roy Edwards	A-So	Little Rock
Coleman, Bess	A-So	Pine Bluff
Coleman, Henry A.	A-F	Paragould
Coleman, Joe C.	E-F	Mineral Springs
Coleman, Samuel Wallace	E-S	Strong
Collman, Frederick Albert	Ag-Sp	Hope
Colquitt, Caryl	Ed-F	Grady
Colvert, Clyde Cornelius	Ed-J	Eagle Mills
Combs, Otto Clifford	A-J	Fayetteville
Compton, Agnes	Ag-So	Batesville
Conley, John Nye	A-So	Little Rock
Conley, Kate Elizabeth	Ed-So	Paris
Connell, DeBert W.	A-J	Hot Springs
Conner, Margaret	A-F	Chicago, Ill.
Connor, Mary Eugenia	A-F	Little Rock
Cook, Alice Virginia	Ag-J	Fayetteville
Cook, Norris Alva	E-F	Fayetteville
Coonfield, Ben Randolph	A-F	Lowell
Corgan, Charles Howard	A-F	Rogers
Corley, Powell R	ATC	Fort Smith
Cotnam, George William	A-F	Miller, S. Dak.
Cotham, Edward Ralph	A-F	Monticello
Cotton, Ellen Grace	A-J	Fayetteville
Cotton, John Leonard	A-J	Fayetteville
Couch, Inez Alice	A-Sr	Magnolia
Couch, Robert Edgar, Jr.	A-Sr	Van Buren
Cowling, Frances Warren	E-F	Texarkana
Cox, Hollace Lawton	E-J	Vale
Cox, Lydia Beatrice	Ed-J	Vale
Cox, Thelma Catherine	Ed-F	Prescott
Crabaugh, Alfred Jackson	A-J	Bentonville
Craig, William Thomas	A-F	Eurola
Cravens, Wyatt Lamar	A-So	Paris
Crawford, Roy Henry	E-F	Arkadelphia
Creason, Willard George	A-F	Hot Springs
Creasy, Leonard S.	E-T	Dow, Okla.
Crenshaw, Alice	Ag-So	Fayetteville
Cross, Robert Cecil	E-J	Waldron
Crossno, Ernest D.	A-Sr	Ozark
Crozier, Cornelia	Ed-Sr	Fayetteville
Crozier, Rachel Flagg	Ed-J	Fayetteville
Croyle, Mrs. Francis W.	Ed-Sp	Fort Smith
Cummings, Robert Paul	Ag-Sr	Springdale
Cunningham, Joe Andrew	E-J	Clarksville
Cunningham, Marcus Earl	A-F	Fayetteville
Curtis, Robert Frank, Jr.	A-F	Crawfordsville
Curtis, Corbiss Colby	A-F	Monticello
Curtis, Harry Burns	E-Sr	Bentonville
Cutting, Tom A.	A-So	Fort Smith
Dacus, Lester Irwin	A-F	Magazine

Name	Course	Home Address
Dake, Emily Biddie	Ed-F	Hot Springs
Dale, Ethel	Ed-So	Fort Smith
Daniel, Charles William	E-F	Monticello
Daniel, John W.	A-F	Prescott
Daniel, Mary Ida	A-So	Fayetteville
Daniel, Nellie May	A-So	Fayetteville
Davidson, Ruby Irene	A-F	Fayetteville
Davis, Halsell S.	A-J	Anna, Tex.
Davis, Jessie May	A-J	Lowell
Davis, Mozelle	Ag-So	Fayetteville
Davis, Richard Harding	A-Sp	Stamps
Davis, Wade L.	A-F	Stamps
Deal, Phillip Lafayette	A-So	Lonoke
Dearing, Fay Kathleen	A-Jr	Prairie Grove
Dearing, Grace Helen	Ed-F	Prairie Grove
Deen, Knoble	A-So	Paris
Dempsey, Silas Ezra	E-T	Russellville
Derry, Louis Lee	A-F	Paragould
Dever, Lawrence Thomas	A-F	Muskogee, Okla.
Dial, Chester William	ATC	Fort Smith
Dickinson, George Wallace	A-Sp	Horatio
Dickinson, John Westrich	E-So	Little Rock
Dickson, Elbert	E-T	Longview, Tex.
Dickson, Price Addison	Ag-J	Bentonville
Diddy, Carl Eunace	Ed-F	Nashville
Diddy, Sims Goodlette	Ag-Sp	Hope
Dinelly, Claire Deane	A-J	Pine Bluff
Dixon, Edgar Franklin	E-F	Little Rock
Dodson, Vernal	A-Sp	Cincinnati
Donaldson, Joy Kenneth	A-So	Green Forest
Doren, C. E.	E-T	Tulsa, Okla.
Dotson, Hazel Marie	Ag-So	Fayetteville
Douglas, Thomas Greene	E-T	East McKeesport
Dowd, Willie J.	Ag-T	Prescott
Dowell, A. Louese	Ed-So	Fayetteville
Downing, Norman H.	Ag-So	Fayetteville
Dozier, Charles Bingham	A-So	Moro
Dozier, Floyd Spivey	A-So	Moro
Drew, Elizabeth	A-Sp	Texarkana
Duff, William Herman	A-F	Plumerville
Duffie, Marjorie Katherine	Ed-F	Russellville
Duffie, Paul R.	Ag-F	Malvern
Duke, Lucille Caswell	Ed-So	Waldron
Dumas, Joseph E.	A-F	El Dorado
Dupras, Edmond	Ag-T	Fayetteville
Dupuy, Eva Arrington	A-S	Marianna
Dupuy, Virginia	Ed-So	Marianna
Dupuy, Wilma Imogene	A-F	Marianna
Dyer, Ruth	Ed-Jr	Fayetteville
Dyer, Walter Sherman	A-J	Fayetteville
Earl, William Edwin	Ag-F	Morrilton
Earle, John Bayliss	Ed-Sr	Fayetteville
Earle, Margaret	A-J	Fayetteville
East, Jack	Ed-Sr	Texarkana
Easterling, Walter Davies	A-So	Eudora
Eaton, Eva Frances	A-F	Fayetteville
Eaton, J. Saba	E-T	Brownwood, Tex.
Edgar, Nobe	A-J	Newport
Edler, Charles	E-T	New Florence, Mo.
Edwards, Frances Sue	Ed-So	Lonoke
Edwards, Katherine Virginia	A-Sp	Muskogee, Okla.
Elledge, Roberson Reaves	E-F	Brinkley
Elliott, Jean	Eng-So	Lewisville
Elliott, Lloyd	Ag-Sp	Parks

Name	Course	Home Address
Elliott, Marion Hanks	Ag-J	Johnson
Ellis, Charles Edmund	E-J	Rogers
Ellis, Mrs. Corinna Raidt	Ed-So	Fayetteville
Ellis, Edward Everette	A-F	Fayetteville
Ellis, Martha Belle	A-Sr	Fayetteville
Erickson, Elizabeth E.	Ed-F	Rogers
Eshelman, Helen Louise	A-F	Fort Smith
Eubanks, James Earl	ATC	Garfield
Evans, James Melroy	E-T	Osage, Okla.
Evans, William Clarence	Ed-J	Atkins
Everett, Marian Louise	Ag-F	Gentry
Fahy, Elmore Rowland	A-So	Camden
Faisst, Bernard	A-So	Benton
Farmer, Archie Madison	E-T	Asher, Okla.
Farrington, John	Ag-F	Springfield, Mo.
Farrior, Bonnie Lee	A-Sr	Russellville
Field, Ernest James	A-Sp	Little Rock
Ferguson, Dorcas Catherine	A-J	Russellville
Ferguson, Charles Fleur	A-Sp	Texarkana
Ferguson, John Douglas	Ag-Sp	Russellville
Fisher, Ben Wright	A-F	Hot Springs
Fitz, Marcus Frederick	A-So	Fayetteville
Files, Richard Malcolm	Eng-So	Itasca, Tex.
Fink, William Meade	A-F	Bentonville
Fisher, Alfred Ted	E-J	Rogers
Fitch, Earl Young	Ag-Sr	Carlisle
Fitch, Irma	Ag-So	Hindsville
Fitch, Larkin	Ag-J	Hindsville
Fitch, Margaret Corinne	Ed-So	Texarkana
Fitch, Arthur Berl	E-F	Fayetteville
Fleak, Mabel Harris	Ag-Sp	Fayetteville
Fleak, Roy Everett	E-T	Muskogee, Okla.
Fletcher, Burrell Alexander	A-So	Augusta
Flin, Lucia King	A-F	Little Rock
Flood, Ralph T.	Ed-F	Fayetteville
Folsom, Pat Hall	E-F	Heavener, Okla.
Ford, Ralph Miller	E-F	Newport
Ford, William M.	E-T	El Dorado, Okla.
Forgy, Percy O'Dell	A-So	Dierks
Foster, James C.	E-T	Richmond, Tex.
Foster, Francis Cecil	Ag-F	Little Rock
Fox, Edwin Foster	Ag-J	Berryville
Franklin, Herman F.	E-T	Fort Worth, Tex.
Frazier, Helen	Ed-F	Ozark
Frazier, Waldo	Ag-J	Ozark
Fretwell, James Harrod	E-F	Levy
Fretwell, Thomas John	E-Sp	Henryetta, Okla.
Friend, Harold Lloyd	E-Jr	Blackwell, Okla.
Fulbright, James William	A-So	Fayetteville
Fulkerson, Stanley Dale	E-So	Prairie Grove
Fuller, Ishamel Worth	ATC	Miami, Okla.
Fuller, Sybil Josephine	E-F	Waldron
Futrell, Emily	A-So	Fayetteville
Futrell, Helen	A-Sr	Fayetteville
Futrell, Junius Byron	A-Fr	Paragould
Gaddy, Joseph Carroll	Ag-So	Wilmar
Gage, Jack John	E-F	Fayetteville
Galloway, John Stanley	E-T	Paducah, Tex.
Gammill, Sterling Fay	E-T	Branch
Gardner, Mable Everett	A-F	Hamburg
Gardner, Tom Sherwood	E-T	Marietta, Okla.
Gardner, William Wesley	E-So	Richmond
Garlington, Arthur Roe	Ag-Sr	Booneville
Garner, Jean Kerstin	E-F	Marvell

Name	Course	Home Address
Garrett, Billy	Ag-F	Alzheimer
Garrett, Willie Steele	Ag-F	Alzheimer
Garrison, Albert Henley	E-J	St Joe
Garrison, Daniel Greene	A-J	St Joe
Garrison, Glenn	A-F	DeQueen
Garrison, Howard Lee	A-Sp	El Dorado
Garrison, Lowell W.	A-F	DeQueen
Gatling, Mildred Earle	Ag-So	Bearden
Gaston, Walter J.	E-T	Warren
Geary, Charles Watson	Ag-So	Henderson
Geis, Peter H.	E-F	Hartford
Gholson, Lloyd	E-F	Fayetteville
Gholson, Roy	E-F	Fayetteville
Gibson, Crystal Jeanne	A-F	Wagoner, Okla.
Gibson, Gladys Evelyn	A-F	Nashville
Gibson, Julius Cummings	A-J	Harris
Gibson, Newell Clarence	E-So	Eureka Springs
Gibson, Sidney Jobe	A-F	Fordyce
Gilbreath, C. Richard	A-Sr	Fayetteville
Gilbrech, Raymond Albert	E-So	Palmer
Gilliam, William Norman	ATC	DeQueen
Gillespie, Ilene	A-Sp	Osceola
Gillespie, Mary Louise	Ag-So	Fayetteville
Gillespie, Mildred	A-Sr	Fayetteville
Gladden, Doris Margaret	A-F	Bentonville
Goldman, Charles Tolbert	E-T	Evansville
Golden, Dorothy May	A-F	Marianna
Gordon, William Albert	E-T	Morrilton
Gore, Ulys Roy	Ag-F	Farmington
Gottfried, Emanuel D.	A-F	Brinkley
Grabiel, Richard	A-Sp	Fayetteville
Graham, Ruby Estelle	Ed-F	Prairie Grove
Graves, Guy Crowson	A-F	Ashdown
Greathouse, Margaret	Ed F	Fayetteville
Greene, Robert Alva	A-Jr	Pea Ridge
Greenhaw, Don	A-Sp	Harrison
Greenhaw, Frank Pierce	A-So	Harrison
Greer, Clyde	A-F	Eureka Springs
Greer, Thomas Benjamin	Ag-F	Eureka Springs
Greer, Harold Pride	A-Sp	Horatio
Gregory, Bryan Trumbull	A-F	Fayetteville
Greig, Nita	Ed-So	Van Buren
Guthridge, Arthur Eugene	A-Sp	Lonoke
Hack, Charlie	A-J	San Antonio, Tex.
Haigwood, Hazel	A-J	Clarksville
Hale, Grover C.	E-T	San Antonio, Tex.
Hale, Walter Samuel	Ed-So	Camden
Hall, Claris G.	A-J	Little Rock
Hall, Lois Jewell	Ag-F	Webb City
Hall, Lonnie Elias	A-So	Fayetteville
Hall, Orville Jacklin	Ag-So	Springdale
Hall, Robert Norton	E-J	Eagle Mills
Hall, Virginia	A-F	Fayetteville
Halpine, Macomb	A-F	New York, N. Y.
Hamilton, James Forest	Ag-F	Wynne
Hamilton, James Norman	E-Sp	Pine Bluff
Hammett, Thomas Edward	E-So	Calvin, Okla.
Hancock, Doy Lee	A-F	McAlester, Okla.
Hanegan, Allie M.	Ag-F	Hope
Hanes, Hall W.	E-T	Chicago, Ill.
Haney, Olen Knight	E-T	Aurora
Hansard, Harry E.	Ag-I	Fayetteville
Hardgrave, Aly Virginia	Ed F	Denning
Hardin, Leo Jefferson	A-Sr	Grady

Name	Course	Home Address
Hardin, Zeb	E-T	Waco, Tex.
Harding, Arthur Leon	A-I	Fayetteville
Harding, William Brewster	A-So	Fayetteville
Hardy, Louise	A-So	Monticello
Harper, Clio Armitage	A-So	Little Rock
Harrall, Jennie Lee	Ed-So	Tillar
Harrington, Beth Lanore	Ag-So	Fayetteville
Harrington, Florence	Ed-Sr	Fayetteville
Harrington, Leroy J.	E-Sr	Fayetteville
Harris, Dorothy	E-Sr	Fort Smith
Harris, Elmer Ralph	E-Sr	Piggott
Harris, Lennie	Ag-So	Fayetteville
Harris, Fred William	Ed-J	Cotton Plant
Harris, John B.	Ag-Sp	Greenwood
Harris, May Belle	A-I	Plumerville
Harrison, Grace	Ed-I	Fayetteville
Harrison, William Mace	E-Sr	Muskogee, Okla.
Hass, Leyscial Verne	A-I	Grant City, Mo.
Hatfield, Walter B.	A-I	Paragould
Hathcock, Alfred	A-I	Fayetteville
Hathcock, Helen Lee	Ed-I	Locust Bayou
Hathcock, Preston Loyce	A-So	Fayetteville
Hatch, Henry Ernest	E-T	Walnut Ridge
Hawkins, Evelyn Byrd	Ed-So	Fort Smith
Hawkins, Walter Fay	E-F	Charleston
Hawthorne, Greene Bryan	E-F	Waldron
Hayes, Brooks	A-F	Hot Springs
Haynes, Elmer	A-F	Charleston
Haynie, Robert Bracy	Ed-Sr	Texarkana
Head, James DeKalb, Jr.	A-So	Texarkana
Heerwagen, Margaret	A-I	Fayetteville
Hedgus, J. W.	Ag-Sp	Grady
Hempill, John Anderson	Ag-Sr	Richmond
Herbst, Lloyd George	A-I	Fayetteville
Henry, Charles Doyle	E-So	Bearden
Henry, Clara	A-So	Lake Village
Henry, James A., Jr.	A-F	Little Rock
Henry, Mabel	Ed-F	Helena
Henry, Mildred	Ed-F	Helena
Hershey, Lucile Merlin	A-F	Okmulgee, Okla.
Hertford, James Fletcher	A-I	Hope
Herring, Kathleen	Ed-Sr	Warren
Hess, Ewell	A-Sp	Batesville
Hester, Lillian Irene	Ed-F	Fayetteville
Heston, Emily Miriam	A-F	Fayetteville
Hickey, Sibley Wayne	E-F	Camden
Hicks, Daisy Jean	Ed-F	Warren
Hicks, Edwin Prentice	A-F	Greenwood
Hicks, Walter Edwin	E-J	Warren
Higgins, Midget Henrietta	Ed-F	DeValls Bluff
Higgs, Bettie Jane	Ag-So	Idabel, Okla.
Hight, Ferree Brinton	Ag-F	Arkansas City
Hill, Earle A.	E-T	Coyle, Okla.
Hinds, Hazel S.	A-Sr	Rogers
Hodges, Grace Edith	A-Sr	Westville, Okla.
Holder, Nina	A-I	Little Rock
Holderby, Zemerue	Ed-F	Newark
Hollabaugh, Cleveland B.	A-I	Leshe
Holmes, Corinne	Ed-Sr	Camden
Hon, Jackson	A-F	Warren
Hootin, George C.	A-I	Cleetah, Okla.
Hopkins, Charley Frank	Ag-Sp	Marioneta
Horsfall, Frank	Ag-I	College Station
Horsfall, James Gordon	Ag-F	Monticello

Name	Course	Home Address
Houston, Gaines Neely.....	E-So.....	Little Rock
Howard, Isaac Wesley.....	A-J.....	Provo
Howard, Jack Houston.....	ATC.....	Mort. Tex.
Hughes, Mary Decker.....	A-J.....	Hot Springs
Huenefeld, William R.....	ATC.....	Gregory
Huffman, Charles Franklin.....	A-So.....	Bentonville
Huggins, Margaret.....	A-S.....	Fort Smith
Huggins, L. Gale.....	A-Sr.....	Fort Smith
Hughes, Frances	Ed-S.....	Haynes
Hughes, John Floyd.....	E-F.....	Camden
Hull, William Leland.....	E-F.....	Fort Smith
Hultsman, Juanita.....	A-S.....	Fort Smith
Hunter, Joseph William.....	A-J.....	Little Rock
Husky, Lyman Theodore.....	A-Sr.....	Prescott
Hutcheson, Edwin.....	E-F.....	Magnolia
Hutcheson, May.....	A-F.....	Magnolia
Hvizdalek, Fred.....	E-F.....	Fayetteville
Ingels, Neil Barton.....	E-F.....	Fort Smith
Irby, Freeman Buckner.....	A-J.....	Newport
Irby, Ruby Juanita.....	Ed-F.....	Fayetteville
Jackson, George A.....	A-S.....	Monticello
Jackson, B. M.....	E-F.....	Muskogee, Okla.
Jackson, Charlotte May.....	A-F.....	Rogers
Jackson, Corinne.....	A-So.....	Monticello
Jacobs, Carthal Loyd.....	A-F.....	El Dorado
James, Auldy R.....	ATC.....	Potomac, Okla.
James, Ruth Virginia.....	A-S.....	Van Buren
Jameson, Charles William.....	A-S.....	Fort Smith
Jamison, J. Edgar.....	A-F.....	Gilham
Jarvis, Violet Joseph.....	Ed-S.....	Fort Smith
Jarvis, Virgil B.....	ATC.....	Fort Smith
Jones, Vestal Gladys.....	A-Sr.....	Paris
Johnson, Allan Ament.....	Ed-Sp.....	Foreman
Johnson, Bryan.....	E-T.....	Beche
Johnson, Florence Wealthy.....	A-So.....	Fayetteville
Johnson, Joyce Winnifred.....	Ed-F.....	Charleston
Johnson, Mrs. Kepler.....	A-Sp.....	Little Rock
Johnson, Maureen Mildred.....	Ed-F.....	Foreman
Johnson, Oliver Kepler.....	E-S.....	Fayetteville
Johnson, Rupert Price.....	E-J.....	Fayetteville
Johnson, William Albert.....	A-J.....	Lincoln
Johnston, Jerome Babcock.....	Ag-F.....	Fort Smith
Jones, Abner Arthur.....	E-F.....	Greenwood
Jones, Dorothy M.....	A-F.....	Fayetteville
Jones, Gaddy Monica.....	A-T.....	Junction City
Jones, Henry Key.....	A-F.....	Fayetteville
Jones, Leonila.....	A-F.....	Marshall
Jones, Quelma.....	A-F.....	Sapulpa, Okla.
Jones, Robert Earl.....	A-F.....	Fayetteville
Jones, Zerna Kathleen.....	A-F.....	Sapulpa, Okla.
Jordan, Edythe Anita.....	Ag-T.....	Fayetteville
Jordan, Frances Elizabeth.....	A-S.....	Prescott
Jordan, Helen.....	A-So.....	Prescott
Judy, Freida Grace.....	Ed-So.....	Waldron
Jung, Mrs. A. L.....	A-So.....	Springdale
Karnes, Hazel.....	Ed-F.....	West Fork
Karnes, Oscar Oliver.....	ATC.....	Pitkin
Karr, David L.....	E-T.....	Wister, Okla.
Kehoe, Arthur L.....	E-J.....	Foranass, Tex.
Keith, George Fred.....	E-J.....	Fayetteville
Kelley, Helen June.....	Ed-F.....	Fort Smith
Kelley, Pansy B.....	Ed-So.....	Eureka Springs
Kennan, Clara Bernice.....	Ed-J.....	Rogers
Kemp, Bradford J.....	E-T.....	Sherman, Tex.

Name	Course	Home Address
Kennard, Eugenia	A-I	Fayetteville
Kennedy, Virgil Newton	A-F	Fort Smith
Kennedy, William H.	A-F	McFerren
Kerr, Olive May	Ag-Jr	Fayetteville
Key, Hugh B.	A-F	Henryetta, Okla.
Keys, Glynn John	Ag-F	Malvern
Kidd, Bonner Ray	A-S	Little Rock
Kight, Kenneth Kelso	A-I	Malvern
Kilbourn, Garland Rex	A-S	Bentonville
Killian, Mary Lynn	A-S	Monticello
Kimbrow, Irwin	A-I	Heavener, Okla.
Kimbrought, Felix Albert	A-S	Dutch Mills
Kindley, Genevieve	Ed-F	Gravette
King, Cyrus Miles	E-So	Stuttgart
King, Hallie Virginia	A-F	Fayetteville
King, Hattie Victoria	A-F	Fayetteville
King, John Garland	A-Sp	Heber Springs
Kirchoff, William F.	A-So	Paragould
Kirkpatrick, Insley Johnson	ATC	Summers
Kitchens, Margaret Thelma	Ed-J	Magnolia
Kitchers, Stephen Bolivar	E-Sp	Paragould
Knerr, Dorothy Dee	A-Sr	Fayetteville
Koch, Marie	Ed-So	Carlisle
Krone, Tim Manning	A-F	Fort Smith
Kuhnert, Clara May	A-Sr	Springdale
Kuykendall, J. Ray	A-S	Little Rock
Kuykendall, L. Roy	A-S	Little Rock
Kyles, Augusta J.	E-Sp	Fayetteville
Lacy, Robert Thomas	A-So	Broken Bow, Okla.
Ladd, Jimmie Stirman	Ag-F	Fayetteville
Lafferty, John Lowell	A-F	Little Rock
Lambert, Carmen Pairlee	A-F	Charleston
Lare, Myrle Frank	E-F	Rogers
Lane, William Lethel	ATC	Bridgeport, Tex.
Langford, Jack L.	A-So	Clarksville
Lano, Ruth	Ed-Sp	Fayetteville
Lashley, Paul L.	A-F	Texaskana
Latimer, Farris Newton	A-J	Corning
Latto, Kenneth	Ed-F	Rogers
Lauck, Chester Harris	A-Sp	Mena
Lavendusky, Albert M.	E-T	East Bernard, Tex.
Laverty, Schuyler Cassleman	E-F	West Fork
Lawson, Marvin	Ed-So	Imboden
Leake, James Prentiss	A-So	Junction City
Lawson, Ernest	E-T	Scottsville
Lee, Henry Kieffe	E-F	Eudora
Leeper, Marvin Tidwell	E-F	Benton
Lefores, William McKinley	Ag-Sr	Gentry
Leighton, Neumon	A-F	Cotton Plant
Lenon, Warren E.	A-So	Little Rock
Leonard, Elston Stewart	Ag-So	Fayetteville
Levi, Camille	A-Sp	Nashville
Lewis, Francis Claire	A-Sr	Fayetteville
Lewis, George Henry	E-T	Lamar
Lewis, Helen	A-I	Fayetteville
Lewis, Herbert	A-F	Fayetteville
Liebolt, Frederick L.	A-So	Fayetteville
Linton, Peggy Sue	A-F	Fayetteville

Name	Course	Home Address
Lincoln, Bert Hartzell.....	A-Sr.....	Van Buren
Lincoln, Lydia Elizabeth.....	Ed-F.....	Van Buren
Little, Marshall Marvin.....	F-I.....	Bauxite
Loda, Alfred Joseph.....	A-So.....	Camden
Loudermilk, Ford Raphael.....	A-F.....	Judsonia
Lovell, Lasco Gaines.....	E-So.....	Springdale
Lowe, Roy E.....	E-T.....	Greenwood
Luck, Benjamin Dane, Jr.....	A-F.....	Pine Bluff
Lyles, John Stephen.....	E-So.....	Wagoner, Okla.
Lund, Carl Frederick.....	ATC.....	Red Oak, Okla.
Lyon, William A.....	A-Sr.....	Camden
Lynn, Joseph William.....	E-T.....	Bentonville
Magers, Raymond Gabriel.....	E-T.....	Murchison, Tex.
Magness, Guy Norton.....	Ed-So.....	Lead Hill
Mailor, James Imery.....	A-J.....	Fort Smith
Manning, John Eber.....	Ed-Sr.....	Haynes
Manning, William Henry.....	F-I.....	Brownwood, Tex.
Marak, Charles Tom.....	E-So.....	Hazen
Marks, Armand Morton.....	Ed-F.....	Fort Smith
Marks, Neal.....	F-I.....	Kingsland
Marsh, Neill C.....	A-Sr.....	El Dorado
Marshall, Susan Etta.....	A-F.....	College Station
Martin, Curry Walter.....	E-So.....	Newport
Martin, Edgar Trantham.....	E-T.....	Gentry
Martin, Gilbert Henry.....	A-F.....	Pine Bluff
Martin, Harvey T.....	ATC.....	Everton
Martin, Katie Alline.....	A-So.....	El Dorado
Martindale, James Gossett.....	A-So.....	Hope
Mason, Morris.....	E-F.....	Womble
Mason, Ruric Coin.....	E-J.....	Bentonville
Matlock, Lucy Mae.....	Ag-F.....	Fort Smith
Matthews, Charlie M.....	E-J.....	Lake Village
Matthews, Perry Eldridge.....	A-F.....	Calico Rock
Maxfield, Alice.....	A-So.....	Pasadena, Cal.
May, George.....	E-T.....	El Paso, Tex.
Mayo, Margaret Sherwood.....	Ag-F.....	Little Rock
Mays, Edward Duke.....	E-F.....	Marianna
Mays, Lula Alma.....	Ed-F.....	Fayetteville
McClinton, Lela May.....	A-F.....	Fayetteville
McAdams, Claude.....	F-I.....	Muskogee, Okla.
McAdams, William Benton.....	E-T.....	Clifton, Tex.
McAlister, Ila.....	Ag-J.....	Fayetteville
McAllister, Max.....	A-I.....	Fayetteville
McCain, Hugh Mark.....	E-So.....	Monticello
McCall, John Greenhaw.....	F-I.....	Marshall
McCarroll, Otto Greene.....	E-T.....	Little Rock
McCarthy, Charles Lewis.....	E-F.....	Little Rock
McCastlain, Maurice Sheppard.....	A-F.....	Fayetteville
McCatherine, Thelma.....	Ag-F.....	Fayetteville
McClain, Eugene Hubert.....	Ed-F.....	Ratcliff
McClain, Hubert E.....	Ed-F.....	Ratcliff
McClelland, Roy.....	A-F.....	Grand View
McCloy, Clifford E.....	A-So.....	Monticello
McCloy, Joe D.....	A-Sr.....	Monticello
McColloch, Carrick L.....	Ag-J.....	Lincoln
McColloch, Laura Frances.....	Ag-F.....	Lincoln
McCormack, Roland Edwin.....	A-I.....	Little Rock
McCullough, William Glen.....	A-I.....	Paris, Tex.
McCoy, Esther.....	A-So.....	Coffeyville, Kan.
McDaniel, Aubrey.....	E-So.....	Fayetteville
McDonald, Angus Henry.....	E-F.....	Fayetteville
McDonald, DeKalb Lafayette.....	A-F.....	Junction City, La.
McDonald, Louis Calvin.....	E-T.....	Vinita, Okla.
McDowell, Harry Bourne.....	E-Jr.....	Little Rock

Name	Course	Home Address
McFarland, Tillman Russell	E-So	Nashville
McGarry, William Thomas	E-F	Little Rock
McGee, Borden Matthew	E-T	Handley, Tex.
McGaugh, Etna	Ag-F	Decatur
McGaugh, Louise	Ag-F	Decatur
McGhee, Ora	Ed-F	Piggott
McGill, Annie Scott	Ag-So	Chidester
McGill, Robert Leighton	Ag-F	Chidester
McGuire, John Clifford	Ag-F	Piggott
McHenry, Alice Elizabeth	A-So	El Dorado
McKeehan, Sam Paris	A-F	Hot Springs
McKissack, Gordon	E-I	James, Tex.
McKenzie, Arthur Ray	E-I	Booneville
McKinnies, Henry Herman	E-Sr	Paragould
McKnight, R. B., Jr.	E-F	Parkin
McLean, Sherod Wilmer	Ed-F	Fordyce
McMullin, Harry Logan	E-Sr	Fayetteville
McNair, Alice Elizabeth	A-J	Fayetteville
McNeil, William Arthur	A-Sp	Fort Smith
McNutt, James Luther	E-T	Arkadelphia
McPhetridge, Iris Louise	A-F	Bentonville
McRae, Hamilton Eugene	A-F	Helena
McRaven, Mullins	A-Sp	Little Rock
McWorkman, Holt H.	A-F	Gentry
Meeks, Benjamin G.	A-F	Arkansas City
Mehaffy, J. Pat	A-F	Little Rock
Mellor, Grace Elizabeth	A-J	El Dorado
Mendenhall, John Everett	A-F	McNeil
Meriwether, William Winston	A-F	Paragould
Metz, Leonard Henry	A-F	Prairie Grove
Mhoon, Raymond Andrew	A-F	Fayetteville
Mikler, Richard Crockett	Eng-Sp	Magazine
Milburn, Frank Herbert	Ed-F	Fayetteville
Miles, Gertrude Ellis	Ed-F	Fayetteville
Miles, Merriam Lee	A-Sp	Fort Smith
Miller, Amanda Harris	A-F	Hot Springs
Miller, Howard	A-F	Wagoner, Okla.
Milliken, Alice Forbes	A-F	Little Rock
Mills, Vernon Scott	E-Sp	Stephens
Milsap, Floyd Wesley	A-So	Fort Smith
Milwee, Minor Wallace	A-J	Horatio
Mitchamore, Clarence E.	E-T	Brenhan, Tex.
Moffitt, Hugh Price	Ag-J	Fayetteville
Montague, Kathryn Yates	Ed-F	Fort Smith
Montgomery, Samuel Evander	A-F	Lewisville
Moody, Terry Weaver	E-T	DeQueen
Moore, Ivor Guinn	A-I	Texas
Moore, Berry Lee	Ag-F	El Dorado
Moore, Henderson Blackwood	A-Sp	Osceola
Moore, Samuel Howard	A-J	Little Rock
Moore, Thomas Lafayette	E-T	Floresville, Tex.
Morgan, Claud Cecil	A-F	Winnfield, La.
Morgan, David Chester	Ed-F	Camden
Morgan, Edward Jennings	A-F	Fort Smith
Morgensen, Glenn William	E-I	Sylva, Okla.
Morley, Clark Paul	E-F	Fort Smith
Morgan, Velma Edna Frances	A-F	Tulsa, Okla.
Morris, Gerald L.	A-F	McCrory
Morris, Hazel	A-So	Newport
Morris, Robert L.	A-So	Fort Smith
Morris, Thelma	Ag-F	Idabel, Okla.
Morrison, Roma L.	Ed-F	Fayetteville
Morton, Jack Dean	A-F	Fayetteville
Morton, Opal Genevieve	E-F	Prairie Grove

Name	Course	Home Address
Mosley, Mark Kimbrough.....	E-Sp.....	Fordyce
Moseley, Maurice Jackson.....	A-F.....	Alma
Mulkey, Mary Elise.....	A-J.....	Nashville
Mulrenin, Mary Cecilia.....	A-Sr.....	Fayetteville
Murdock, Fred Horace.....	A-So.....	Fayetteville
Murphy, Leo.....	A-I.....	Junction City
Muse, M. Preston, Jr.....	E-F.....	Junction City
Nash, Richard Cole.....	A-F.....	Jonesboro
Neal, William Edward.....	E-T.....	Holly Grove
Neaves, Merle John.....	Id-S.....	Carney, Okla.
Neel, James Howard.....	A-So.....	Steam Springs
Nettleship, Thelma Ernestine.....	Ed-So.....	Fayetteville
Newcam, Landram.....	A-F.....	Monette
Newman, Ruth Virginia.....	Ed-So.....	Little Rock
Nichols, Elmer Fred.....	E-F.....	Gillett
Nichols, Earl Greer.....	A-J.....	Ozark
Norbury, Joe Bradford.....	A-So.....	Fayetteville
Norris, James Oliver.....	A-F.....	Mena
Norris, Mary Virginia.....	A-So.....	Fort Smith
Oakes, Algic Edgar.....	ATC.....	Bentonville
Oakley, Francille Batenburg.....	A-J.....	Rogers
Oakley, John Ferdinand.....	A-So.....	Fayetteville
Oakley, Margaret.....	Ag-J.....	Fayetteville
O'Bar, Alfred Seth.....	E-F.....	Charleston
O'Dell, Blanche Jane.....	A-Sp.....	Muskogee, Okla.
O'Keefe, Hugh Williams.....	A-F.....	Fort Smith
O'Kelly, Edwin.....	A-Sr.....	Bluc Mountain
O'Kelly, Orbie Adrain.....	Ed-F.....	Little Rock
Olin, John Frank.....	A-F.....	Fayetteville
O'Neill, Annie Ruth.....	Ed-F.....	Warren
Osborne, Charles Alexander.....	E-T.....	Dallas, Tex.
Osburn, Irvin Fischer.....	A-F.....	Paris, Tex.
Osteen, Phyllis Louise.....	A-T.....	Fort Smith
Osterman, Arthur Lee.....	A-So.....	Little Rock
Overten, Sue Belle.....	A-F.....	Pine Bluff
Owen, Nancy Ethel.....	A-So.....	Rest
Owens, Margaret Amelia.....	Ed-F.....	Rogers
Owens, Mary.....	A-Sp.....	Rogers
Paddock, Charles Samuel.....	A-So.....	Fayetteville
Paddock, Mary Grace.....	Ed-Sr.....	Fayetteville
Paine, Paul Adkins.....	E-T.....	Van Buren
Paisley, Elizabeth.....	A-F.....	Fayetteville
Paisley, William Merrill.....	A-F.....	Fayetteville
Palmer, Aileen.....	Ag-F.....	Pine Bluff
Palmer, Charles Edwin.....	A-J.....	Vorona, Pa.
Parrish, David Dave.....	A-So.....	Mammoth
Pankhurst, Homer Searl.....	E-F.....	Lafayette, Tex.
Pankhurst, Mrs. Opal Judson.....	Ed-F.....	Fayetteville
Paris, Ray Hezekiah.....	E-T.....	Mena
Park, Lyndon Elizabeth.....	A-Sr.....	Mena
Parker, Curtis Lambert.....	Ed-So.....	Winthrop
Parker, John Nunn.....	A-F.....	Fort Smith
Parker, Sarah Frances.....	Ag-So.....	Fayetteville
Parker, Thelma Icell.....	Ed-F.....	Fort Smith
Parker, William M. ..	A-F.....	De Valls Bluff
Parkes, Edmundson.....	E-So.....	Pine Bluff
Parkinson, William Harris.....	E-So.....	Hazen
Parks, Bryan.....	A-F.....	Fort Smith
Parrish, Edwin Doyle.....	A-Sr.....	Mena
Parrish, Norman Alfred.....	E-F.....	Piggott
Parsley, Joyce Carda.....	Ag-F.....	Fayetteville
Parsley, Leola.....	A-F.....	Rogers
Pate, Adeline.....	A-Sr.....	Little Rock
Patterson, Spurgeon.....	A-F.....	Blytheville

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Name	Course	Home Address
Paul, Vernon C.	Ed-F	Earle
Paulk, Vera	Ed-So	Fouke
Pearce, Odessa	Ag-Sr	Magnolia
Peay, Robert Hudson	A-F	Little Rock
Peck, Sam Julius	A-F	Magazine
Pendergrass, John	E-So	Fort Smith
Peter, Theodore Edward	Eng-F	Creigh
Pettie, John Hawthorne	A-So	Little Rock
Petty, Frances	Ed-Sr	Charleston
Phelps, John Vernon	Ag-Sp	Mena
Phillips, Kenneth William	A-F	Brookland
Phillips, Ada	Ag-So	Fayetteville
Phillips, Clyde Moore	A-F	Fayetteville
Phillips, Earle Taylor	A-F	Texarkana
Phillips, Grace	Ed-F	Pine Bluff
Phillips, James Thomas	A-F	Fayetteville
Phillips, Ralph Waldo	Ed-F	Fayetteville
Pickel, Elbert Jefferson	A-F	Wynne
Pimm, Edna Marie	Ed-So	Fayetteville
Pinkerton, Doris Anita	A-S	Nashville
Pinkerton, Earle Irene	Ed-Sp	Pine Bluff
Pinkerton, William	Ed-So	Fayetteville
Pippen, Amma	A-F	Russellville
Pitts, Albert	Ed-F	Fayetteville
Plank, Nellie May	E-T	Heber Springs
Plunkett, Frances Martha	E-T	Heavener, Okla.
Poe, McDonald	Ag-So	Mt. Enterprise, Tex.
Poe, Sam Edgar	Ag-F	Decatour
Poe, William	A-Sr	Fort Smith
Pollock, Otto Gilbert	Ag-J	Waldron
Porter, Lena Elsa	Ag-F	Waldron
Porter, John White	A-S	Fayetteville
Posey, Spencer Boyd	ATC	Holdenville, Okla.
Potter, Frances	A-F	Rogers
Powell, Myrtie Grace	A-F	Prairie Grove
Powell, Ruth	A-Sp	Prairie Grove
Powell, William Lea	A-So	Hot Springs
Pratt, Vocile Manlove	Ed-F	Warren
Price, Marvinne	Ed-F	Huttig
Price, Mary Frances	Ag-So	Texarkana
Priddy, Julian Berril	Ag-Sr	Fayetteville
Prince, Glenn Wray	A-F	Fayetteville
Proctor, Clifton Redd	E-F	Paragould
Pugh, Bernice Opal	E-So	Fordyce
Pugh, James Wilkes	A-So	Chidester
Purcell, John Junior	A-F	Fort Smith
Turdy, Russell Talpee	Ag-F	Fort Smith
Purifoy, Leslie A.	E-So	Fayetteville
Radican, Joe Glennon	E-J	Fayetteville
Ragsdale, Thomas Floyd	E-T	Russellville
Rainwater, Elmer Hubert	E-T	Oklahoma City, Okla.
Raith, Myrtle	A-So	Hoxie
Ramsey, Warren A.	A-S	Paragould
Ramus, Royal Miller	A-So	Paragould
	E-T	Wilburn
	Ag-F	Arkansas City

Name	Course	Home Address
Randolph, William Bernard	E-So	Little Rock
Ray, Geraldine Catherine	A-F	Stuttgart
Ray, Ralph Edward	A-So	Stuttgart
Rea, John Theodore	A-F	Van Buren
Reagan, Rowena Estelle	Ed-F	Huttig
Rebsamen, Lloyd M.	E-F	Fort Smith
Reed, Arthur Elmo	Ag-F	Ratcliff
Reeser, Gladys Ellen	A-Jr	Jacksonville
Render, Francis Albert	E-T	Fargo, Okla.
Renfro, Elza	A-So	Fayetteville
Renner, Maurice	E-F	Fayetteville
Rhew, Clover Pearl	A-F	Judsonia
Rhoades, Margaret LaRue	A-F	Okmulgee, Okla.
Rice, Alan Walker	Ag-So	Fayetteville
Rice, Pauline	Ed-So	Rogers
Rich, Pattie Sue	Ag-F	Cotton Plant
Richards, Margaret Josephine	A-So	Little Rock
Richardson, Christine	Ed-So	Walnut Ridge
Richardson, Irene	Ed-Sr	McGehee
Richardson, Junius Charles	A-So	Paragould
Nieff, Thelma Kathryn	A-So	Fayetteville
Riner, Leo James	A-F	Pine Bluff
Ripley, Vincent Marsh	A-Sr	Fayetteville
Ripley, Kenneth Clay	E-F	Fayetteville
Robertson, James Leland	A-Sr	Piggott
Robbins, Rector Allen	E-T	Telephone, Tex.
Roberts, Theodore	E-T	Fayetteville
Robinson, Charles Ulric	Ag-So	Centerion
Rodgers, Carlin Lanier	Ag-So	Gravette
Rodgers, Joe K.	ATC	Konowa, Okla.
Rodgers, Robbie Edna	Ed-F	Gravette
Rodgers, John Henry	Ag-Sr	Gravette
Rogers, Elizabeth	Ed-F	Piggott
Rogers, Roger William	A-F	Fort Smith
Rogers, Yandell	Ed-So	Rogers
Roland, Thomas Warren	A-So	Malvern
Rood, Marjorie Jo	Ed-So	Rogers
Root, Duke Martin	Ag-Sr	Fayetteville
Root, Harold L.	E-J	Vale
Rose, Billie	A-F	Fayetteville
Rose, Pauline Cory	Ed-F	Fayetteville
Rosenbaum, Carl Augustus	A-Sr	Little Rock
Ross, Dewey Talbert	E-T	Fayetteville
Ross, Fred George Carl	E-F	Little Rock
Rothrock, Mrs. Zelma	A-Sp	Prairie Grove
Rountree, Walter Preston	E-F	Camden
Rouw, Elsie Inez	Ed-So	Van Buren
Rowe, Cecil Ebert	E-T	Lepanto
Rowin, George Edward	E-T	Walnut Grove, Mo.
Ruble, Anna Agnes	Ed-F	Fayetteville
Ruble, Leona Seamster	Ag-F	Fayetteville
Rucker, Hugh Walter	E-So	Bauxite
Rucker, Jefferson Davis	A-F	Bauxite
Ruckman, Charles	E-F	Fayetteville
Rudolph, Marguerite Elizabeth	Ag-I	Fayetteville
Rudolph, Winifred Beth	Ag-So	Fayetteville
Ruppel, Helen Christine	Ed-So	Fayetteville
Ruppel, Margaret	Ed-So	Fayetteville
Rushing, Garland Stanley	Ed-Sr	Chidester
Russell, Andrew Jay	A-J	Berryville
Russell, Beula	Ed-F	Gravette
Russell, Dilla Belle	Ed-Sr	Fayetteville
Russell, Emily	Ag-J	Pine Bluff
Russell, Mettie	Ag-F	Fayetteville

LIST OF STUDENTS

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Name	Course	Home Address
Russell, Rose	Ed-So	Fayetteville
Rutherford, Gladys Catherine.....	Ed-F	Fayetteville
Sadler, Ashton Gray.....	A-F	Van Buren
Sadler, Winifred Howe.....	A-F	Paris
Salyer, Robert H.....	E-T	Florence, Tex.
Salyers, Ruth	Ed-F	Fort Smith
Samuelson, Grace L.....	A-Sr	Searcy
Sandford, Claude Herbert	E-F	Fayetteville
Sandford, Dorothy Nell	Ag-F	Fayetteville
Sanford, Levings Foster.....	E-F	Monticello
Schaaf, Haseltine	A-So	Paragould
Schaller, Fredericka Lyman	A-F	Little Rock
Schilling, George Silas.....	Ag-So	Fayetteville
Schmuck, Lydia Mae.....	Ag-F	Little Rock
Schroeder, William Jacob	Ed-Sr	Pocahontas
Schultz, James W.....	Ag-So	Garvin, Okla.
Shaw, George	E-F	Hot Springs
Scott, Carl M.....	A-So	Fayetteville
Scott, Esther	A-J	Monticello
Scott, Frank Hammond	A-F	Monticello
Sensing, Ruby Mae.....	A-So	Fayetteville
Seydel, Charles Earl	A-Sr	Pine Bluff
Senyard, William Howard	A-So	Pine Bluff
Sessions, Will Anderson, Jr.....	A-F	Helena
Sessums, Ernest Alexander.....	E-T	Dallas, Tex.
Shafer, Genevieve	Ed-F	Fayetteville
Sharp, Lynn Lewis	A-F	Fayetteville
Sharp, Samuel Miles	E-Sr	Alma
Shaw, Bruce Holiman	Ag-F	Pine Bluff
Shaw, Ernest Irwin	A-F	Hot Springs
Shaw, Lawrence	ATC	Texarkana, Tex.
Shaw, William Francis	A-So	Lincoln
Shaw, George Gilbert	A-So	Paris, Tex.
Shelley, Sebastian Mawson.....	E-T	Midland
Sheppard, Dorothy	Ag-F	Fayetteville
Shinn, Silas Emmett.....	A-So	Russellville
Shirmer, Luther L.....	E-T	Fayetteville
Shope, Harlan Duncan	E-Sr	Redfield
Shores, Louise Frances.....	A-F	Little Rock
Shoup, Edmond Pound.....	A-Sr	Augusta
Shuller, Benjamin Franklin.....	A-Sr	Ozark
Shurley, Marion Irvin.....	ATC	Wiburton, Okla.
Simmons, Erma	E-Sr	Urbana
Simpson, John D	E-Sr	Summers
Sims, Harry	A-T	Plummerville
Sims, Philip	Ag-So	Carlisle
Sipe, Paul Wilson.....	Ag-F	Fort Smith
Sittel, Clementine	Ag-Sr	McAlester, Okla.
Skelton, Helen	Ag-Sr	Fort Smith
Slade, Milton Burke.....	Ag-Sr	El Dorado
Slaughter, Frances Christian	E-T	Fayetteville
Slaughter, Jessie Lee	E-T	Junction City
Slaughter, Vera Beuers	Ag-Sr	Fayetteville
Sloan, Vivian Inez	A-T	Portia
Smead, Leonard C.....	A-Sr	Camden
Smith, Bonn Viola	Ed-So	Fort Smith
Smith, Brice Reynolds	E-Sr	Wynne
Smith, Carl A.....	Ag-So	Fayetteville
Smith, Clarence Turner	Ag-Sr	Siloam Springs
Smith, Dewitt McKinley	Ag-Sr	Luxora
Smith, Douglas Omar	E-Sr	Fort Smith
Smith, Emma Charles	E-T	Paris, Tex.
Smith, Frank Harold	E-F	Fayetteville
Smith, Forrest Aubrey	Ag-F	Mist

Name	Course	Home Address
Smith, Fred Alfred	Ag-So	Springdale
Smith, George Wilson	E-T	Canton, Okla.
Smith, Irene	Ed-F	Little Rock
Smith, John Ira	Ed-Sr	Tyro
Smith, J. Preston, Jr.	E-F	Fayetteville
Smith, Lynn Luman	Ag-Sp	Bergman
Smith, Mac Clyde	Ag-F	Fayetteville
Smith, Margaret Rose	A-So	Little Rock
Smith, Marguerite Blanche	Ag-F	Little Rock
Smith, Mary Bess	Ed-So	Fort Smith
Smith, Mary Elizabeth	A-F	Paris
Smith, Maude Lelia	Ag-F	Moscow
Smith, Minor Wallace	A-F	El Dorado
Smith, Olive Beatrice	Ag-F	Fame, Okla.
Smith, Ora	Ed-So	Van Buren
Smith, Pearle Armon	Ag-So	Hamburg
Smith, Sam Otis	Ag-J	Tyro
Smyer, Kathryn Ivan	A-F	Springdale
Sorrels, William Grady	E-So	Bearden
Spann, Edward	E-T	Washom, Tex.
Speer, Robert Lewis	A-F	Fort Smith
Spencer, Clara Deweese	Ag-J	Van Buren
Spencer, George H.	A-So	Monticello
Spradling, Mae	Ed-F	Heber Springs
Spratt, Madge	A-Sr	Fort Smith
Spruell, Helen Leigh	A-F	Fort Smith
Stanford, Malcolm Foster	Ag-F	Fayetteville
Stark, Martha Learlene	Ag-F	Neosho, Mo.
Staton, William P.	A-Sp	Wichita Falls, Tex.
Stauber, Harvey Victor	Ed-F	Carlisle
Stearns, John T.	A-F	Fayetteville
Stevenson, Albert Edward	E-T	Little Rock
Stevenson, James Anne	E-F	Van Buren
Stewart, Jessie	Ed-Sr	Cave Springs
Stinson, Lawrence Watkins	E-F	Fayetteville
Stokes, Dixon R.	E-T	Springdale
Stone, Thomas Washington, Jr.	A-F	Waldron
Storey, Frank Anderson	A-F	Malvern
Storey, Rudolph Ovey	E-F	Dierks
Strange, Benjamin F.	E-T	Spiro, Okla.
Strickland, Floyd Milton	A-F	Little Rock
Strode, Florence	Ed-F	Bentonville
Stroud, John Paul	E-So	Oxford
Stroupe, Dwight	Ag-Sp	Paris
Stubblefield, LaVern	A-F	Fayetteville
Stubblefield, Ralph Errol	Ag-So	Fayetteville
Stubblefield, William Hugh	Ag-F	Fayetteville
Such, Carl Emanuel	E-T	Fayetteville
Sugg, Barney Alga	Ed-So	Bellville
Sullivant, Mary Bob	Ed-Sp	Stephens
Sutton, Lucille	Ag-F	Little Rock
Sutton, Mrs. Gladys Raymond	Ag-Si	Marianna
Swain, Demier	ATC	Swain
Swartz, Joseph	ATC	Fayetteville
SweARINGEN, Guy Winburn	A-F	Hot Springs
Sweitzer, Paul Damon	ATC	Shawnee, Okla.
Swindler, Herbert Lee	A-F	Muskogee, Okla.
Swink, Loretta	Ed-So	Fayetteville
Swink, Ruth	Ed-So	Fayetteville
Sykes, Walter Madison	E-F	Richmond
Taggart, Helen Elizabeth	Ed-So	Fort Smith
Talbert, Lois Marion	Ag-F	Little Rock
Tatum, Lucian	A-F	Jonesboro
Taylor, Ewell	Ag-F	Slocomb

Name	Course	Home Address
Taylor, James Thomas	A-F	Cecil
Taylor, Mary Virginia	A-F	Okmulgee, Okla.
Tedford, Edith Elizabeth	Ed-So	Little Rock
Tennant, Frank	Ed-So	Dallas, Tex.
Teeter, Glynn Lewis	Ag-So	Pottsville
Terral, Troy D.	A-F	Pine Bluff
Terrell, Faye	Ed-F	Paragould
Terry, Dennie Bancroft	E-F	Tillar
Terry, Mary Eric	Ed-F	Fayetteville
Teter, Philip O.	E-Sr	Batesville
Thomas, Clyde Unger	E-J	Berryville
Thomas, Fay Minnie	Ed-So	Benton
Thomas, Minnie Magdalene	A-So	Fayetteville
Thomas, Travis Raye	Ag-I	Magnolia
Thomason, Samuel Arrelion	Ag-I	Warren
Thomason, Elizabeth Florence	Ag-Sr	Fayetteville
Thompson, Frank Earle	A-F	Little Rock
Thompson, H. E. Jr.	E-So	Wagoner, Okla.
Thompson, James Paul	Ag-F	Fayetteville
Thrasher, Billie Bob	A-Sr	Prescott
Thrasher, Frances Mae	Ed-Sr	Prescott
Thrasher, Marvin J.	E-T	Piggott
Tibbets, Frances Louise	Ed-So	Camden
Tidball, Dabney Lee	A-F	Fayetteville
Tidball, Paul Brandon	A-F	Fayetteville
Tidball, Virginia	A-F	Fayetteville
Tidwell, Carl E.	A-Sp	Corning
Tier, Mildred Elizabeth	A-Sr	Fayetteville
Todd, Warren Allen	Ag-F	Springdale
Tomek, Louis John	E-T	Cove
Toney, Mary Eschline	E-I	Pine Bluff
Townsend, Wallace Hugh	A-F	Mena
Trace, Henry Hylan	A-F	Paragould
Trekell, Bess	A-F	Fayetteville
Trumbo, Donald	A-F	Muskogee
Tuck, Della Elizabeth	A-S	Fayetteville
Tunnell, Lloyd C.	ATC	Hope
Tunell, Ethelyle Ruth	E-I	Fayetteville
Turley, Frances Louise	A-So	Forrest City
Turner, Horace A.	E-F	Lonoke
Turner, Roger Emerson	A-J	Fort Smith
Uhl, Agnes Sue	E-S	Fayetteville
Uhl, Edith	Ag-J	Fayetteville
Umsted, Elbert Owen	A-So	Newport
Underbush, Grace	E-I	Fort Smith
Utley, Annie Marie	A-F	Paris
Van Natta, Carl Ows	E-T	St. Joe
Van Tuyl, Courtney Alexander	E-T	Dallas, Tex.
Vestal, Mildred	Ed-So	Little Rock
Vick, John Marion	A-So	Fayetteville
Vincenheller, Mary Virginia	A-F	Fayetteville
Wade, Warren Benjamin	A-J	Rogers
Wain, Elias Lee	ATC	Page, Okla.
Walborn, Fields H.	E-F	Matts, Okla.
Walker, Aurelius Pete	A-F	Magnolia
Walker, Brad R.	Ed-Sp	Marble
Walker, James Oval	E-T	Fayetteville
Walker, James Douglas	A-F	Paris
Wales, Ernest L.	E-I	Mammoth Spring
Wall, Harry Boykin	E-F	Marked Tree
Wallace, Jack Kelso	A-So	Magnolia
Walt, Martain Lee	Ag-F	Kerr
Ward, Darrell Ocie	A-Sp	Van Buren
Ward, Irene Bateman	A-F	Little Rock

Name	Course	Home Address
Ward, John	Ag-J	Fayetteville
Ware, George Whitaker	Ag-J	Levesque
Ware, J. Allen	A-F	Fayetteville
Ware, Maxedon	E-S	Pine Bluff
Warner, Thomas Deane	A-F	Jonesboro
Watkins, Edward William	A-F	Mena
Watson, Agnes	A-F	Jonesboro
Watson, Eugene Hal	A-F	Okmulgee, Okla.
Watson, Grace Hazeltine	A-F	Fayetteville
Wav, Alene Beall	A-F	McKays, Okla.
Welch, Charles Morris	Ag-F	Little Rock
Wells, John Fenton	A-S	Little Rock
Welborn, William Arnold	E-T	Frederick, Okla.
Weniger, Leona	Ed-F	Little Rock
Westpheling, Mary Elizabeth	Ed-J	Fayetteville
Whaley, Adelia	Ed-F	McNeil
Whaley, Arlie Thurber	A-F	McNeil
Wharton, Carroll Mays	Ag-F	El Dorado
Wharton, John Hugh	A-S	El Dorado
Wheeler, Chal Spencer	A-F	Little Rock
Wheeler, Flora Parks	Ed-F	Warren
Wherry, Mittie	Ag-F	Little Rock
Whitaker, Gilbert Riley	E-So	Stilwell, Okla.
Whitcomb, Beulah Irene	Ed-F	Fayetteville
White, Edwin Dean	A-F	Stilwell, Okla.
White, Herman Samuel	ATC	Charleston
White, Hugh Hays	E-T	Houston, Tex.
White, John Wilfred	A-S	Monticello
White, Lois	Ed-So	Paris
White, Nathan P.	E-T	Ward Hill, Mass.
White, Otto	A-F	Fayetteville
White, Ralph Holland	Ag-F	Newport
White, Tuell A.	A-S	Stilwell, Okla.
Whiteside, Leighton B.	F-F	Jumbo, Okla.
Whitford, Carrie	F-F	Fayetteville
Whitford, Nellie Matilda	F-F	Fayetteville
Whitlow, George Samuel	E-J	Hamburg
Whitmarsh, Fred Stiles	E-F	Fort Smith
Whitsitt, Nelson E.	A-F	Paragould
Whitten, Robert Watson	E-F	Paris, Tex.
Wilbourn, Franklin Euin	A-F	Paragould
Wilkin, Charlie Robert	A-F	De Valls Bluff
Winkelman, Charlie Dan	Ag-F	Fayetteville
Williams, Carl	F-F	Womble
Williams, Cecil W.	F-F	Rosboro
Williams, Garnet Allen	E-F	Fort Smith
Williams, Hugh	A-F	Elkins
Williams, John Speer	E-J	Paragould
Williams, Lola	Ag-F	Fayetteville
Williams, Marjorie	A-F	Fort Smith
Williams, Ray Edwin	A-Sr	Fort Smith
Williams, Taylor Thomas	Ed-J	Jacksonport
Williams, Tom Littleton	F-F	Margum, Okla.
Williams, Vernon	F-F	Mt. Ida
Williams, Virgil	F-F	Mt. Ida
Wilford, John Herndon	F-F	Rison
Wilson, Charley Morrow	A-F	Fayetteville
Wilson, Evelyn Louise	Ed-J	Russellville
Wilson, Hudson H.	A-F	Magnolia
Wilson, Kate	A-F	Fayetteville
Wilson, Osie W.	E-F	Harrison
Wilson, William Thaddeus	Ag-So	Fayetteville
Winburne, Betty Lee	A-F	Morrilton
Witcher, Ruth	Ed-F	Fayetteville

LIST OF STUDENTS

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Name	Course	Home Address
Witty, Roy Eldo	AJ	Fayetteville
Wolf, Artemus Ford	AS	Fayetteville
Wolf, George David	AS	Fayetteville
Wolf, Ruth	AS	Fayetteville
Wolfenbarger, Ruby May..	EF	Fayetteville
Womble, Walton Eugene..	EF	Womble
Wood, Henry	EF	Mammoth Spring
Wood, Lake Jewell	AS	Mena
Wood, Maurice Freman	AS	Paragould
Wood, Nora Lee	EF	Arkadelphia
Wood, Stanley Hammock	AS	Tillar
Woodall, Frank	AS	Little Rock
Woodyard, William Henry Lee	AS	Judsonia
Word, Orville Charles...	AS	Fort Smith
Wyers, Robert Edwin..	AS	Ozark
Wylie, Richard	AS	Carthage
Wyman, Marjorie Lucille..	AS	Trout, La.
Zachry, Bonnie	AS	Magnolia
Zachry, Nell Steele	AS	Magnolia
Zinn, Grover A.	EF	El Dorado

SUMMER SESSION, 1922

*Graduate Students

Aaron, Rosa Ellen	Springdale	Beard, Charles Earl	Fort Smith
Albright, Spencer Delancey	Fayetteville	Beck, Ethel	Washington
Allen, James Edna	Hope	Beasley, Lottie Graham	Lancaster
Amis, William	Fordyce	Berry, Lois Katherine	Fayetteville
Anderson, Homer L.	Paraloma	Billingsley, Billie	Cotter
Andrews, Donald Calhoun	Fort Smith	Black, Lois	Fayetteville
Andrews, John White	Fort Smith	Blackbourne, Corralee	Jefferson, Tex.
Andrews, Mary Olive	Cotton Plant	Blair, Floy	Conway
Appleby, Jack	Fayetteville	Blair, Robert E.	Van Buren
Arnold, Zoe Emily	Hot Springs	Blakemore, Eva Mae	Springdale
Askew, Bettie	Fayetteville	Blanshard, Virginia Mary	Fayetteville
Askew, Margaret	Fayetteville	Blaylock, Thomas F.	South Fort Smith
Atkinson, Mary Alzira	Berryville	Bledsoe, Jonnie Bernice	Little Rock
Atkinson, Minnie Clare	Berryville	*Blodgett, George Frank	Jacksonville
Austin, Ida	DeQueen	Bobo, Ethel	Pine Bluff
Austin, Robert Louis	Ozark	Bogard, Elinor Jeanette	Earle
Pabb, Bernice	Fort Smith	Bogart, Josephine	Earle
Paggett, Della	Brinkley	Bollenbacher, Mrs. Nellie	Fayetteville
Baker, Goldie	Cane Hill	*Bond, G. W.	Summers
Baker, Louise	Lewisville	Booker, Jack	Fort Smith
Baker, Mrs. Selma	Russellville	Boone, Anna Seale	Earle
Bandy, Cora	Locksburg	Boone, Nora Alice	Elkins
Barham, Edna Lee	Stamps	Boone, Olive	Elkins
Barham, William Calvin	Prescott	Boughton, Georgia Greer	Little Rock
Barnes, Miss Tommie	Batesville	Rowen, Alice	Rogers
Barnes, Vida	Batesville	Boyd, Fred	Tyroneza
Barnett, Helen Frances	Fayetteville	*Bradley, James	Jonesboro
Barrett, Clarice Lillian	Des Arc	Brandon, Gertrude	Mena
Barron, Cloma G.	Friendship, La.	Brandstetter, Mrs. Mabel	Southwest City, Mo.
Barron, Mattie L.	Saline, La.		
Bass, Mabel Carr	Little Rock		
Bassett, Hattie	Walnut Ridge		
Bates, T. L.	Fayetteville		
Bays, Vera Lou	Hamburg		

- Brandstetter, Ward G. Southwest City, Mo.
 • Brandstetter, William George Southwest City, Mo.
 Brannan, Katherine Texarkana
 Branscum, Mary Esther Berryville
 Brasher, Beryl Hey Houston, Tex.
 Briggs, Bryant H. Booneville
 Bright, V. S. Fountain Hill
 Brooks, Miss Alta Russellville
 Brown, Lenore N. Walnut Grove
 Brown, Mazillah Walnut Grove
 Brunk, Clifford Prairie Grove
 Brunk, Edythe M. Cane Hill
 Bryant, Andrew J. Grannis
 Bryant, Grace D. Fayetteville
 Buchanan, Betty Velma Fayetteville
 Buell, Etta Belle Prairie Grove
 Buell, Rosalind Fort Smith
 Bunch, Ernest Fort Smith
 Burks, Henry J. Kingston
 Burnett, Lorena Rogers
 Burns, Lucille Dardanelle
 Byrd, Carroll Erby Hot Springs
 Byrd, Sam Tillar
 Byrd, Mrs. Sam Fayetteville
 Campbell, John M. Fayetteville
 Campbell, Kate Cate Van Buren
 Cardwell, Lillian Mary Johnson
 Cardwell, Pearl Johnson
 Carmical, Eleanor B. Monticello
 Carnahan, Mabel M. Prairie Grove
 Carnog, Ethel Charleston
 Carter, Margaret Fayetteville
 Carter, Mildred Helena
 Catts, Mary Washington
 Caudle, Juanita Pitkin
 Chandler, Florence Clyde Fayetteville
 Chandler, Patsy Stamps
 Cheatham, Andy R. Stephens
 Clark, Alverne Van Buren
 Clark, Howard R. Springdale
 Clark, Lake Fayetteville
 Clark, Lillian Fort Smith
 Clark, Lina Pearl Goshen
 Cobb, Bess Fayetteville
 Cobb, Jessie Ray Fayetteville
 Coffey, Ruby Frances Fayetteville
 Collamore, L. J. Little Rock
 Collum, Walter C. Alma
 Colvert, Clyde C. Eagle Mills
 Colvert, Osie H. Eagle Mills
 Colvin, Allie Mae Warren
 Compton, Lillian Eleanor Rogers
 Compton, Willie Letitia Batesville
 Conoway, Velma L. Rogers
 Connelly, Delta R. New England, N. D.
 Cook, Floyd R. Prairie Grove
 Cooper, Mary Rebecca Shamrock, La.
 Copeland, Edith G. Jonesboro
 Cotton, Ellen Grace Dardanelle
 Cotton, John Leonard Dardanelle
 Couch, Mrs. G. H. Fayetteville
 Coventon, Bessie M. Oakland
 Cowling, Zoe Fielding Texarkana
 • Cox, Crichton D. Farmington
 Cox, Pearl Ray Farmington
 Cox, Vera Louise Fayetteville
 Craig, William Thomas Milner
 Crenshaw, Alice Fayetteville
 Criswell, Harold Paul Haskell, Okla.
 Criswell, Mabel Joyce Haskell, Okla.
 Criswell, Willie Sam Haskell, Okla.
 Crocker, Helen Lewisville
 Crocker, Mrs. M. B. Lewisville
 Croom, Mally Lane Fort Smith
 Crossno, Ernest D. Ozark
 Crowder, Margaret Keith Carthage, Mo.
 Crozier, Rachel F. Fayetteville
 Cumming, Aimes Alice Lincoln, Neb.
 Curry, Corliss Monticello
 Dailey, Ozie L. Fayetteville
 Daley, Lelia Texarkana, Tex.
 Daniels, Walter E. Little Rock
 Danner, Hattie Elizabeth Fort Smith
 Danner, Hilda Deen Fort Smith
 Davis, Carl Gay Fayetteville
 Davis, Caroline L. Guthrie, Okla.
 Davis, Fern Blanche Mansfield
 Davis, Mrs. George Lake Village
 Davis, Mary Gertrude Elm Springs
 Davis, Mozella Fayetteville
 Davis, Winifred Edna Guthrie, Okla.
 Davison, Mrs. Lela Little Rock
 Dean, Isabelle M. Portland
 Deaver, Mary Putnam Springdale
 Dedman, Ethel Fort Smith
 Deen, Margie Lola Fayetteville
 Dever, Zetta Fayetteville
 Dial, Charles M. Holly Grove
 Dickson, Kyle Wilmar
 Dildy, Jewell Nashville
 Dixon, Mary Lincoln
 Dodson, Vernal Louise Cincinnati
 Donaldson, Joy Kenneth Green Forest
 Dotson, Ethel Fayetteville
 Dotson, Hazel Marie Fayetteville
 Dotson, Katie Ella Fayetteville
 Douglas, Henrietta Springtown
 Drake, Doris Fayetteville
 Dritt, Dell D. Lockesburg
 Duke, Mamie Lucille Crossett
 Duncan, Chlora Leachville
 Dye, Glen Excelsior Springs, Mo.
 Dyer, Ruth Fayetteville
 Eiland, Eva Calley Hazen
 Ellis, Mrs. Corinna R. Fayetteville
 Ellis, Alma L. Fayetteville

*Ellis, James F.	Fayetteville	Hall, Martha Virginia	DeWitt
Elliot, Pauline	Wheelor	Hamilton, Sarah Lorena	Evening Shade
Ellis, Martha Belle	Fayetteville	Hanks, Ora Joe	Johnson
Evans, Georgia Edna	Hot Springs	Hankins, Essie	Ogden
Ewart, Elsie A.	West Helena	Hanna, Mrs. Myrtle	Fayetteville
Ewart, James B.	Booneville	Hardgrove, Loriane	Ozark
Eyer, Martha Lou	DeQueen	*Hardin, L. Jeanne	Fayetteville
Faisst, Bernard	Benton	Hardy, Madeline Anna	Southwest City, Mo.
Falls, Sue	Vian, Okla.	Harp, Elizabeth	Pitkin
Farley, Grace	Rogers	Harp, Pearl	West Fork
Farmer, Rusha	Fayetteville	Harris, Alma Lynette	Wilmar
Farrar, Hazel Lenora	Thornton	Harris, Esther	Durham
Fawbush, Myrtle Amanda	Sulphur City	Harrison, William Mace	Muskogee, Okla.
Ferguson, Sister Angela	Fayetteville	Hawkins, Marcus L.	Parkdale
Fietz, Rozella Mary	Fayetteville	Hays, Oren Lee	Russellville
Fish, Amy	Star City	Hedrick, Gideon E.	Joplin, Mo.
Foley, Ralph	Fayetteville	Heffelfinger, Eunice W.	Greenland
Fox, Edwin Walker	Berryville	Hendrey, Waldersee B.	Bigelow
Frazier, Creta Oral	Summers	Henry, Mabel Lola	Fayetteville
Frazier, Helen	Ozark	Henson, Louis Emerson	Springdale
Frazier, Ollie May	Ozark	Hermance, Albert Howard	Springdale
Freeman, Edward H.	Mena	Hester, Lillian Irene	Cleburne, Tex.
Fry, Clifford	Berryville	Hicks, Olive Pansy	Greenwood
Fry, Mrs. Thela	Berryville	Hicks, Walter Edwin	Warren
Frye, Dorcas	Rosboro	Hight, Jack	Fayetteville
Furlow, Idelle	Ashdown	Hill, Mrs. James R.	Horatio
Furlow, Lucy T.	Ashdown	Hill, Martha	Prairie Grove
Furlow, Vesta	Chester	Hill, W. S.	Greenland
Furr, I. Beatrice	Arkansas City	Hilton, Lilben L.	Siloam Springs
Futrell, Alma	Marianna	Hix, Wilbur Allen	Sapulpa, Okla.
Gardner, Mrs. E. P.	League City, Tex.	Hobb, Alice Ellen	Schaberg
Gardner, Minnie Belle	Hamburg	Hoeltzel, Pauline R.	Little Rock
Garcissen, Marietta Cobb	Goldsboro, N. C.	Holcomb, Mary E.	Fayetteville
Garrett, Florence Eugenia	Van Buren	Holderby, Richard H.	Newark
Garrison, Albert Henley	St. Joe	Hollingshead, Maud D	Carlisle
Garrison, Esta Viola	Fayetteville	Holmes, Isaac W.	Richmond
Garrison, Thelma Desiree	Fayetteville	Holt, Thelma	Earle
*Geary, Riley W	Henderson	Hon, Daniel Gaines	Fort Smith
Gelling, James C.	Springdale	Hooks, Zola Irene	Lucy, Tenn.
Gillespie, Idella	Olvey	Hopper, Jack R.	Fayetteville
Givens, Maureen	Simsboro, La.	Horsfall, James Gordon	Monticello
Gladney, Donald W.	Lewisville	Howard, Vergie M.	Mineral Springs
Gladney, Mrs. D. W.	Lewisville	Hubbard Clara Belle	Bellefonte
Glidewell, Mrs. Naomi T.	Lincoln	Hubbard, Minnie Clair	Fort Smith
Gollaher, Pearl Gladys	Fayetteville	Huddleston, Vere L.	Hot Springs
Gordon, Florence Gladys	Little Rock	Hudson, Etta Garlington	England
Core, Ulys Roy	Farmington	Huggins, L. Gale	Fort Smith
Goza, L. M.	Arkadelphia	Huggins, Margaret Frances	Fort Smith
Graham, Anna L.	Alba, Tex.	Ingram, Mercer Thomas	Mart, Tex.
Graham, Ruby	Prairie Grove	Irby, Annie C	Wesson
Grammer, Mina Leone	Raleigh, Tenn.	*Irby, Nolen M.	Blue Mountain
Graves, Leda	Springdale	Irion, Mary Clint	Shreveport, La.
Gray, Josie Fern	Judsonia	Irvin, Mary A.	Siloam Springs
Griffin, Beulah Clair	Carlisle	Ivey, Nellie M.	Springdale
Haigwood, Hazel	Clarksville	Jackson, Ocie	Lincoln
Hale, Alfred Clay	Athens	James, Louise Katherine	Conway
Hale, Elizabeth	Prescott	James, Ruth Virginia	Van Buren
Hale, Ethel Elvira	Prairie Grove		

Jeffery, Nina	Fayetteville	McMullin, Harry Logan	Marble City, Okla.
Jeffery, Vogel	Fort Smith	McNairy, Bobbie Lee	Batesville
Jester, Marjorie Louise	Texarkana	McNairy Mrs. Corinne	Batesville
Jewell, Margaret E.	Fayetteville	McNairy, Marcus	Batesville
Johnson, F. Wealthy	Fayetteville	McWhorter, Josie	Bentonville
Johnson, Joyce W.	Charleston	Mallard, Dorothy	Western Grove
*Johnson, Marvin D.	Waldo	Mallard, Wm. Burnett	Western Grove
Johnson, Otis A.	Southwest City, Mo.	Mallard, Mrs. W. B.	Western Grove
Johnson, Pat	Fayetteville	Mances, Edward O.	North Little Rock
Johnson, Pearl	Charleston	Marquees, Manning	Siloam Springs
Johnston, Sara Bess	Jonesboro	Martin, Donna M.	Fayetteville
Jones, Osie	Osburn	Martin, Gilbert H.	Pine Bluff
Jones, Prudence	Summers	*Martin, Josephine E.	Pine Bluff
Jones, Thelma	Elkins	Martin, Kate Claire	Little Rock
Jordan, Kara	Fayetteville	Martin, Lillian	Danville
*Jordan, Pauline	Little Rock	Martindale, Venus	Nashville
Jory, Sam	Eureka Springs	Mason, Arthur Dixon	Fort Smith
Kennan, Clara B.	Rogers	Mathews, Louis Newton	Lewisville
Kennedy, Dale E.	Waldo	Matthews, Justin	Little Rock
Kennedy, Harvey Wm.	Waldo	Mayes, Wm. E.	Lincoln
Kern, Olive Freda	Springdale	Mayo, Alma Willie	Greenwood
Kimbrough, John Homer	Tillar	Merrill, Pierce Kelton	Conway
Kimbrough, Felix Albert	Dutch Mills	Miller, Conrow R.	Cane Hill
Kirksey, Birch L.	Best Water	Miller, Richard W.	Fayetteville
Lambert, Katherine	West Fork	Millcap, Lois	Fayetteville
Latimer, Farris Newton	Corning	Milsap, Winnie J.	Fayetteville
Lawson, E. Gertrude	Little Rock	Mills, Mrs. R. C.	Sallisaw, Okla.
Leach, Velma Hope	Lincoln	Misenhimer, Vera	Clarksville
Lee, Marjorie	Summers	Mitchell, Mrs. J. S.	Brinkley
Lee, Martha	Malvern	Montgomery, Leona Bee	Horatio
Leighton, Newman	Cotton Plant	Moody, Mollie	Blackton
Leonard, Elston S.	Fayetteville	Moore, John David	Huntington
Leslie, Mrs. R. Elberd	DeQueen	Moore, Margaret Anne	Siloam Springs
Lewis, Dena	Van Buren	Moore, Nannie May	Fayetteville
Liebolt, Frederick L.	Fayetteville	Moreland, Icy	Lamar
Lincoln, Bert H.	Van Buren	Morelock, Mabel	Van Buren
Lincoln, Lydia E.	Van Buren	Morton, Janey Lou	Lancaster, Tex.
Little, Hattie Aileen	Pine Bluff	Moser, Kate	Jesup
Lloyd Elsie	Sitka	Mott, Albert	Sarcoxis, Mo.
Locks, Will Mott	Richmond	Mott, Lilla Ann	Sarcoxis, Mo.
Long, Jewell	Fayetteville	Mulrenin, Mary Cecilia	Fayetteville
Long, Mabel Juanita	Rudy	Murphy, Nelle	Mountain View
Longino, Fanny B.	Fayetteville	Musselman, John C.	Springdale
Look, Mrs. Laura Read	Panama City, Fla.	Nation, Dorothy Elizabeth	Fayetteville
Lovell, Eunice	Springdale	Neal, Martha Eva	Fayetteville
Lowe, Katherine	Fayetteville	Neal, Monroe	Holly Grove
McAdams, Marguerite H.	Fayetteville	Neal, Oliver W.	Bearden
McCarrell, Elizabeth L.	Van Buren	Nesbitt, Edna L.	Blevins
McClendon, Christina	Hot Springs	Nicholson, James Wm.	Cane Hill
McCowen, Dora Elizabeth	Oklahoma City, Okla.	Nimmo, Elyria G.	Mountain Home
McCreight, Mrs. Louise	Brinkley	Norman, Villa	Bentonville
McCullough, O. E.	Batesville	Norton, Anna R.	Hope
McFarland, Tillman R.	Nashville	Nott, Cecil	Fayetteville
McHenry, Edith Jane	Rogers	Nott, Leona	Winslow
McIntruff, Edith Ellen	Nashville	Nulph, Agnes	Fort Smith
*McKinley, Howard W.	Fayetteville	Nulph, Anna L.	Fort Smith
McKinley, Lotta B.	Fayetteville		
McKinnies, Edith Burgess	Hot Springs		
McLendon, Pauline	Little Rock		

Oakley Francile B.	Rogers	Richards, Sydney Allen	Greenwood
Oakley, Margaret	Fayetteville	Ripley, Vincent M.	Fayetteville
Ogilvie, Amy Estelle	Harmony	Roberts, Georgia M.	Conway
O'Kelly, R. Edwin	Blue Mountain	Robinson, Chloera M.	Centralia, Okla.
Orton, Pearle Anne	Ashdown	Robinson, Nora L.	West Fork
Osborn, Bertha Marie	Rogers	Robinson, Robert C.	Fayetteville
Ottinger, Flora	Pfeiffer	Rodgers, Carlin Lanier	Gravette
Owen, Della	Waldo	Roney, Nannie May	Pine Bluff
Paddock, Charles S.	Fayetteville	Root, Duke Martin	Fayetteville
Paddock, Mary Grace	Fayetteville	Ruppel, Helen Christine	Fayetteville
Page, Maye	Sulphur Rock	Rush, Kezziah Laverna	Winslow
Panich, David D.	Marianna	Russell, Dila	Fayetteville
Pankhurst, Mrs. Opal J.	Fayetteville	Rutherford, Gladys C	Greenland
Parsons, Katherine R.	Texarkana	Sadley, Grace Estelle	Van Buren
Parsons, Sadie L.	Kansas City, Kan.	Sanders, W. D.	Fayetteville
Paschall, Nannie Ray	Dallas, Tex.	Sanderson, Shelley	Texarkana
Pate, Adeline	Little Rock	Saylors, Mrs. Victoria P.	Dota
Patterson, Mrs. Norris A.	Little Rock	Scarborough, Wm. F.	DeQueen
Pattillo, Jean C.	Nash, Tex.	Scherder, Sister Cyrilla	Fayetteville
Pattillo, Stuart S.	Fordyce	Scherry, Nannie M.	Fort Smith
Payne, Allen	Fayetteville	Scisson, Burke	Elaine
Payne, Etta D.	Oklmulgee, Okla.	Scott, Alta E.	Garfield
Peachey, Albert	Prescott	Scott, Bettie R.	Stroud, Okla.
Pelfrey, Mrs. J. H.	Lincoln	Scott, Caroline	Prescott
Perry, Lela Anna	Little Rock	Scott, Emma Margaret	Little Rock
Perry, Winnie A.	Richmond	Sedwick, Bess	Fayetteville
Philbeck, Kenneth	Fayetteville	Sensabaugh, Willie A.	Pfeiffer
Phillips, Mrs. Naomi G.	Hot Springs	Sharrock, Clyde R.	Prairie Grove
Phipps, Virginia	Fayetteville	Shaw, Bettie	Bethesda
Phipps, Mrs. Wm. Elmer	Clarendon	Sherwin, Marjorie	Sulphur Springs, Tex.
Phipps, W. E.	Clarendon	Shoptaw, DeLois	Russellville
Pickel, Frank W.	Fayetteville	Simmons, Roas Ione	Urbana
Pickens, Thelma	Batesville	Simmons, S. Vivian	Urbana
Pinkerton, Ruby J.	Fayetteville	Sims, Ora V.	Pecan Point
Pinkerton, Guy W.	Fayetteville	Singleton, Mary E.	Fort Smith
Poe, Sam E.	Waldron	Skelton, Doran	Hazel Valley
Poe, William	Waldron	Skelton, Everett	Hazel Valley
Pollard, Lorraine	Houston, Tex.	Slagle, W. F.	Everton
Pool, Delmar	Texarkana	Slaughter, Vera B.	Fayetteville
Potts, Annie	Lockesburg	Smith, Annie	Summers
Powell, Mrs. George W.	Fayetteville	Smith, Aura	Kansas City, Kan.
Presley, Opal Deene	Wattensaw	Smith, Byron T.	Springdale
Priddy, Julian Buril	Danville	Smith, Charles McDaniel	Paris
Pugh, Katie	Brinkley	Smith, Elizabeth	Pitkin
Purcelly, Bess C.	Batesville	Smith, Frank H.	Fayetteville
Pyeatt, Madge Lee	Summers	Smith, Lora Selma	Gravette
Rambo, William W.	Alston	Smith, Jewell J.	Washington
Ramsey, Gayle	Sulphur City	Smith, Nina	DeQueen
Ramsey, Leveta	Sulphur City	Smith, Ruth Ruby	Winslow
Ramsey, Virgil	Sulphur City	Spence, Helen H.	Monticello
Rankin, Clyde E.	Springdale	Spikes, Mary Lucille	Rogers
Rankin, Richard C.	Jonesboro	Sprague, Bernice L.	Leachville
Rankin, Edna Loraine	Springdale	Sprague, Mary F.	Corning
Reed, Henry C.	Fort Smith	Spratt, Madge	Fort Smith
Redfern, Sammie L.	Stuttgart	Spruell, Gladys M.	Fort Smith
Reed, Mrs. Alta A.	Cane Hill	Stacy, Pearl May	Fayetteville
Reed, Ollie M.	Springdale	Stanford, Alice	Fayetteville
Reed, Ruth	Springdale	Stanford, Nellie Okha	Fayetteville
Renner, Maurice	Fayetteville	Steward, Jessie	Cave Springs
Renner, Welton	Fayetteville	Stockburger, Hazel W.	Winslow
		Stockburger, Iva Z	West Fork
		Stockton, George Marshall	Rogers

Strickland, Lucy	Waldron	Wallace, Jewell Juanita	Carthage
Stroud, Joseph H.	Tillar	Walton, Lucy	Clarksville
Stubblefield, Garland A.	Fayetteville	Ward, Guy Marmaduke	Batesville
Sutton, Mrs. Gladys R.	Marianna	Watkins, Ada	Kingston
Sutton, Velda Alma	Fayetteville	Watson, Mrs. Nora W.	Texarkana
Swink, Loretta	Fayetteville	Watts, Edith	Prairie Grove
Swink, Ruth	Fayetteville	Watts, Homer E.	Prairie Grove
Taylor, Bernice	Fayetteville	Weaver, Leila Anne	Teague, Tex.
Taylor, Mrs. Elmo B.	Fayetteville	Webb, Ina Mae	Reydel
Taylor, Iva Jewell	Cane Hill	Webb, Ralph	Fayetteville
Taylor, John W.	Poughkeepsie	Webster, Dollie	Elm Springs
Taylor, Oma Lee Royse	City, Tex.	Weiterer, Minnie A.	Prairie View
Taylor, Ozra H.	Bradford	West, Phyllis Anna	Cane Hill
Tennant, Frank B.	Dallas, Tex.	Westpheling, Mary E.	Fayetteville
Terhune, Mrs. Alice E.	Fayetteville	Whaley, Mary Allene	McNeil
Thomason, Dewey S.	Warren	White, Bertha B.	Star City
Thompson, Ora	Crosset	White, Lena	Durham
Thornton, Lois Ruth	Thornton	Whiteside, Thomas C.	Gentry
Thurman, Erma	Summers	Wilkinson, Mabel Ruth	Stamps
Thurman, Nora Alice	Fayetteville	Williams, Bess	Fort Smith
Tidball, Virginia	Fayetteville	Williamson, Pearl	DeQueen
Trimble, Otis C.	Fayetteville	Wilson, Ethell	Fayetteville
Trimble, Mrs. Otis C.	Fayetteville	Wilson, Berlin A.	North Little Rock
Tripodi, Mary Theresa	Okmulgee, Okla.	Wilson, Floy	Atkins
Toaz, Mildred E.	Fayetteville	Wilson, J. M.	Marlin, Tex.
Toney, Jewell Anna	Elkins	Wilson, Tannie	Prescott
Towles, Lillian Estelle	Batesville	Winkleman, Charlie D.	Fayetteville
Tucker, Mrs. Justin R.	Kingston	Wood, Nora Lee	Arkadelphia
Upchurch, Fredrica	Fort Smith	Woodruff, Dora S	Bentonville
Upchurch, Josephine M.	Fort Smith	Word, Emerson	Fort Smith
Van Hook, Lottie	Ogden	Wright, Mary Edith	Little Rock
Velvin, Cora	Lewisville	Wylie, Mary	Carthage
Vickers, Cora Nell	Fayetteville	Yarborough, Grace Clara	Little Rock
Vickers, Helena A.	Fayetteville	York, Christa	Mena
Voeste, Vera	Prescott	Young, Hazel Lucille	Springdale
Wade, Warren B.	Rogers	Yowell, Myrtle L.	Mansfield
Wakefield, Elmer G.	Nashville	Zachry, Nell Steele	Magnolia
Walkup, Marie Maud	Havana	Zuerker, Barbara	Fayetteville
Wallace, Alverta	Harrison	Zuerker, Elizabeth	Fayetteville

STUDENTS IN SMITH-HUGHES COURSE, SUMMER, 1922

Boggan, G. S.	Kingston	Neely, Kenneth Andrew	Poughkeepsie
Curry, Wm. R.	Ash Flat	Stockbrand, J. W.	Glenwood
Duboise, Thomas	Pea Ridge	Thrash, Grover C.	Western Grove
Gilbert, Galen O.	Horatio	Tucker, Justin R.	Camden
Hall, Travis	Fayetteville	Tyson, Harvey J.	Branch
Hall, William	Pine Bluff	Vinzant, William B.	
Hughes, Claude Allen	Eudora	Wilkey, Clovis Ray	
McMahon, W. E.	Franklin		
Mills, Olin Boyce			

STUDENTS IN COTTON COURSE, SUMMER, 1922

Adams, James Perry	Batesville	Fisher, W. C.	Searcy
Dante, Jack S.	Dumas	Friend, Edward O.	London
Fair, Frank R.	Bellville	Gage, Claude	Ratcliff

LIST OF STUDENTS

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Hartsfield, W. A.		Rutherford, James L.	Batesville
Livingston, John F.	Batesville	Sanders, Omar F.	Texarkana
Morris, Lewis Deane	Keo	Stone, George V.	Mansfield
Parette Elmer E.	Morrilton	Weiterer, Joseph F.	Prairie View
Poynter, Sid L.	Dover		

UNIVERSITY HIGH SCHOOL 1922-23

Adams, Robert	Newark	Gilstrap, Marguerite	Saint Paul
Appleby, Jack	Fayetteville	Gollaher, Irene	Fayetteville
Arnold, Lambert	West Fork	Graham, Marie	Fayetteville
Askew, Bettie	Fayetteville	Gregson, Edith	Fayetteville
Atkisson, Frank	Fayetteville	Gregson, Lillian	Fayetteville
Austin, Helen	Fayetteville	Griffith, Bill	Fayetteville
Austin, Lee	Fayetteville	Guissinger, Constance	Fayetteville
Beauchamp, Charles	Fayetteville	Haizlip, Ralph	Hot Springs
Best, Cathrine	Fayetteville	Hale, Arthur	Fayetteville
Blanshard, John	Fayetteville	Hale, Harrison, Jr.	Fayetteville
Blew, Bessie	Fayetteville	Halpine, Macomb	New York, N. Y.
Blood, Grace	Fayetteville	Hamm, Garland	Battles
Boyd, Audrey	Fayetteville	Hansard, Fred	Fayetteville
Brandenburg, Billy	Fayetteville	Hansard, Helen	Fayetteville
Brodgen, Grace	Fort Smith	Harding, Mary Frances	Fayetteville
Brown, Herbert	Fayetteville		
Budd, Marguerite	Ogden	Harris, Walter	Fayetteville
Burke, Henry	Fayetteville	Hart, Alton	Fayetteville
Burnip, Kathrine	Fayetteville	Hastings, Howard	Weldon
Cady, Ruth	Fayetteville	Hathcock, Martha	Fayetteville
Cannon, Philip	Fayetteville	Hawn, Marcus	Fayetteville
Cannon, Fred	Fayetteville	Hays, Lloyd	Fayetteville
Cannon, Ruth	Fayetteville	Heffelfinger, Elizabeth	Greenland
Cardwell, Fannie	Johnson	Henbest, Wayne	Fayetteville
Cardwell, Lulu May	Springdale	Henderson, Lee	Fayetteville
Carlisle, Inez	Fayetteville	Henry, George	Horatio
Carman, Elizabeth		Hight, Jack	Fayetteville
	North Little Rock	House, Amos	Johnson
Cassatt, Lawrence	Fayetteville	Hughes, Stephen	Fayetteville
Caudle, Fred	Russellville	Irby, Ruby	Fayetteville
Clark, Frances	Ireland, Tex.	Jackson, Frances	Fayetteville
Clark, Lloyd	Ireland, Tex.	Jeffery, Allan	Fayetteville
Coleman, Nina Lee	Fayetteville	Jewell, Margaret	Fayetteville
Colvert, Fred	Eagle Mills	Johnson, Gladys	Fayetteville
Cornett, Jimmie	Osburn	Johnson, Tonsie Mae	Fayetteville
Cunningham, Ralph	Fayetteville	Key, John E.	Fayetteville
Curtis, Harold	Fayetteville	Key, Thelma	Fayetteville
Curtis, Pansy	Fayetteville	Knapp, Marion	Fayetteville
Davidson, Nickie	Fayetteville	Latimer, Dorothy	Fayetteville
Dever, Zetta	Fayetteville	Latimer, Elizabeth	Fayetteville
Dowell, Allen	Fayetteville	Leicham, John	Peabody, Kan.
Dowell, Ruth	Fayetteville	Lewis, Murry	Springdale
Drake, Doris	Fayetteville	Lichlyter, Hester	Johnson
Droke, James W.	Fayetteville	Lively, Gladys	Springdale
Earle, Fount	Fayetteville	Lively, Grayce	Springdale
Earle, Mary	Fayetteville	Long, Jewell	Fayetteville
Ellis, David	Fayetteville	Love, Ewing	Franklin
Ellis, Frank	Fayetteville	Longino, Fanny	Fayetteville
Ellis, Howard	Fayetteville	Lucas, Ruth	Fayetteville
Ellis, Louis	Fayetteville	Mahaffey, Thomas	Fayetteville
Farmer, Rusha	Fayetteville	Martin, Mrs. Opal	Gentry
Fietz, Wilma	Fayetteville	Mason, Morris	Womble
Fiori, Clelia	Montitown	May, Hazel	Brentwood
Fishback, Herbert	Fayetteville	May, Wendall	Brentwood
Fugitt, Yvonne	Fayetteville	Merrill, Frances	Gifford

Merrill, Marjorie	Gifford	Rudolph, Ruth	Fayetteville
Miles, Baxter	Fayetteville	Rutherford, Gladys	Greenland
Millen, Frances	Plumerville	Sanders, Vernon	Elkins
Miller, Richard	Fayetteville	Seamster, Bernal	Fayetteville
Millsap, Audia	Fayetteville	Seamster, Dorothy	Fayetteville
Millwee, Bennett, Fort	Cobb, Okla.	Sharp, Lamar	Fayetteville
Montegani, Norina	Tontitown	Shelly, Edwin	Midland
Moore, Eldon	Clarksville	Smith, Chester	Crystal Springs
Moore, Jerome	Fayetteville	Sone, Margaret	Fayetteville
Morrow, Richard New York, N. Y.	Fayetteville	Stanford, Alice	Fayetteville
McCathrine, Maxine	Fayetteville	Stanford, Nellie	Fayetteville
McConnell, Ella	Fayetteville	Steen, Grace E.	Fayetteville
McConnell, John	Fayetteville	Stephens, Charles	Fort Smith
McCormack, Carrie	Fayetteville	Stout, Alfred	Fayetteville
McCormack, Irene	Fayetteville	Taylor, Maude	Fayetteville
McCoy, Meade	Springdale	Terry, Pauline	Fayetteville
McDonald, Louetta	Elm Springs	Thompson, Clinton	Fayetteville
McDonald, Worden	Fayetteville	Thompson, Una	Fayetteville
McNair, Pauline	Fayetteville	Toney, Florence	Pine Bluff
Neal, Frances	Fayetteville	Tunstall, Edith	Fayetteville
Nettleship, Mary Frances	Fayetteville	Vail, Mildred	Harris
Oakley, Helen	Fayetteville	Vaughan, Helen	Fayetteville
Olin, Grace	Fayetteville	Vick, Helen	Fayetteville
O'Kelly, Arlie	Fayetteville	Watson, Cline H.	Fayetteville
Petitt, Ruby	Little Rock	Webster, Ruth	Fayetteville
Phillips, Grace	Fayetteville	Weir, Earline	Fayetteville
Phillips, Julia	Fayetteville	Wells, Clarence	Wayne, Kan.
Phillips, Ollie	Fayetteville	Whitaker, Maxwell	Fayetteville
Phipps, Virginia	Fayetteville	Whitty, Margaret	Fayetteville
Pinkerton, Ralph	Fayetteville	Winfrey, Donald	Fayetteville
Pinkerton, Ruby	Fayetteville	Winkleman, Charles	Fayetteville
Polk, Merrill	Fayetteville	Winn, Robert	Winslow
Poole, Dilmon	Tyronza	Womble, Eugene	Womble
Radican, Ed	Fayetteville	Wright, Willis	Fayetteville
Radican, Lynn	Fayetteville	Yates, Margaret Lee	Fayetteville
Renner, Welton	Fayetteville	Yates, Margaret Virginia	Springdale
Roberts, Richard	Fayetteville	Zuerker, Barbara	Fayetteville
Robinson, Grace	Fayetteville	Zuerker, Elizabeth	Fayetteville
Rogers, Mildred	Fayetteville		

SUMMARY

1922-23

<i>College of Arts and Sciences:</i>		511
Graduates	6	
Seniors	37	
Juniors	49	
Sophomores	115	
Freshmen	264	
Specials	41	
<i>College of Engineering</i>		295
Graduates	1	
Seniors	17	
Juniors	27	
Sophomores	41	
Freshmen	91	
Specials	9	
Trade Courses	109	
<i>College of Education</i>		260
Graduates	2	
Seniors	20	
Juniors	22	
Sophomores	67	
Freshmen	96	
Specials	6	
*Duplicates	47	
<i>College of Agriculture</i>		231
Graduates	2	
Seniors	20	
Juniors	31	
Sophomores	44	
Freshmen	89	
Specials	13	
Agricultural Training Courses	32	
Total		1298
Duplicates		47
Fall, winter, and spring terms		1251
Summer Session		754
Cotton Grading Class		15
University High School		185
General Extension Classes		597
Correspondence Courses		560
Agricultural Short Courses		1251
Combustion Engineering Short Course		14
Winter Farmers' Short Course		280
Grand Total		4907

*Candidates for degrees in other colleges and for Teachers' Certificates in College of Education.

GENERAL INDEX

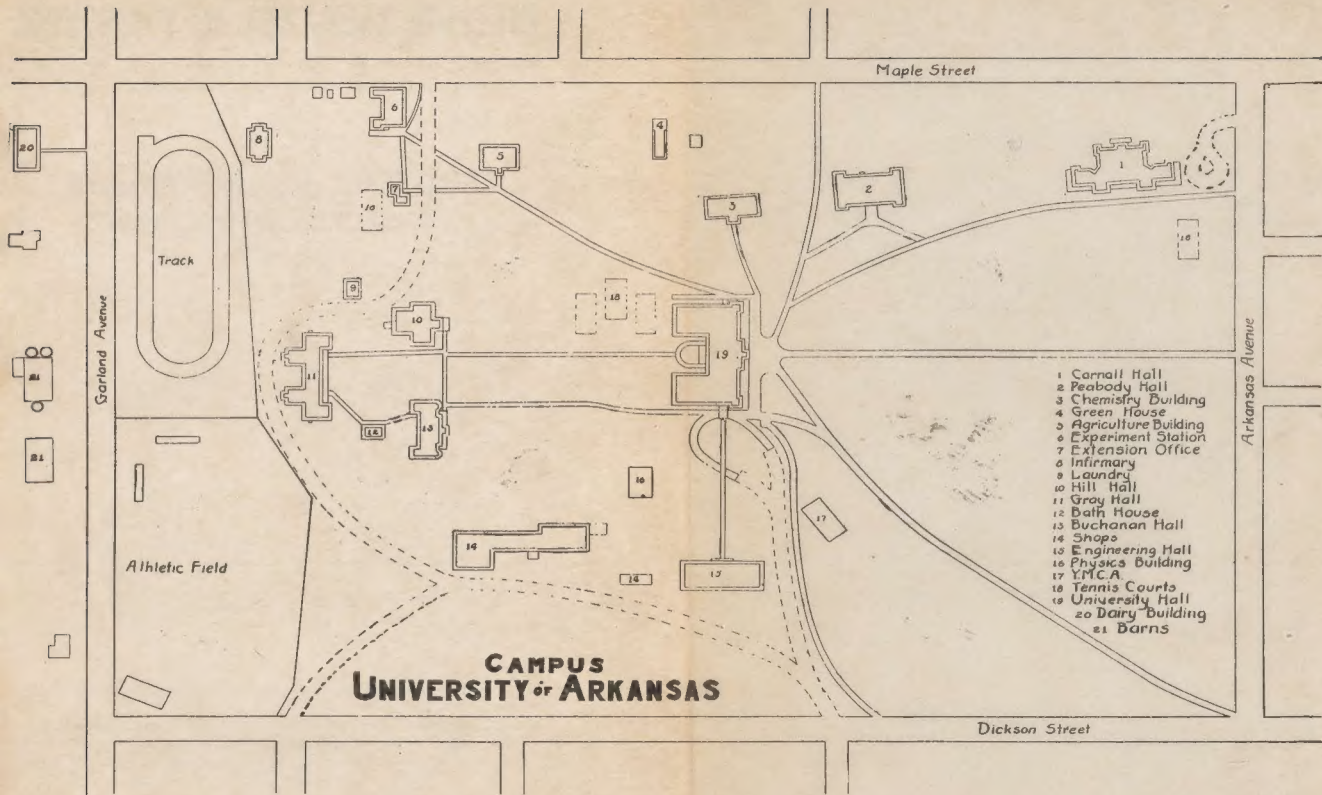
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Maple Street

Colcord Avenue

Arkansas Avenue

Dickson Street

CAMPUS UNIVERSITY of ARKANSAS

1. Ella Gamall Hall
2. Prosser Hall
3. Chemistry Building
4. Dean House
5. Agriculture Building
6. Extension Office
7. Experiment Station
8. Hospital
9. Hall Hall
10. Gay Hall
11. Buchanan Hall
12. Bath House
13. Shop
14. Engineering Hall
15. Dairy Building
16. Transformer
17. Grand Stand
18. Residence, Foreman of farm
19. Barns
20. Bleachers
- A.B.C.D. Tennis Courts

Track

ATHLETIC FIELD

